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# **The Saudi-Yemeni Boundary: Towards a Peaceful Resolution**

**Volume Two**  
(of two volumes)

**Atlas**

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Thesis submitted for Degree of Doctor of Philosophy  
in the Faculty of Social Science, International Boundaries Research Unit,  
Department of Geography, University of Durham, UK.



1996

- 9 OCT 1997

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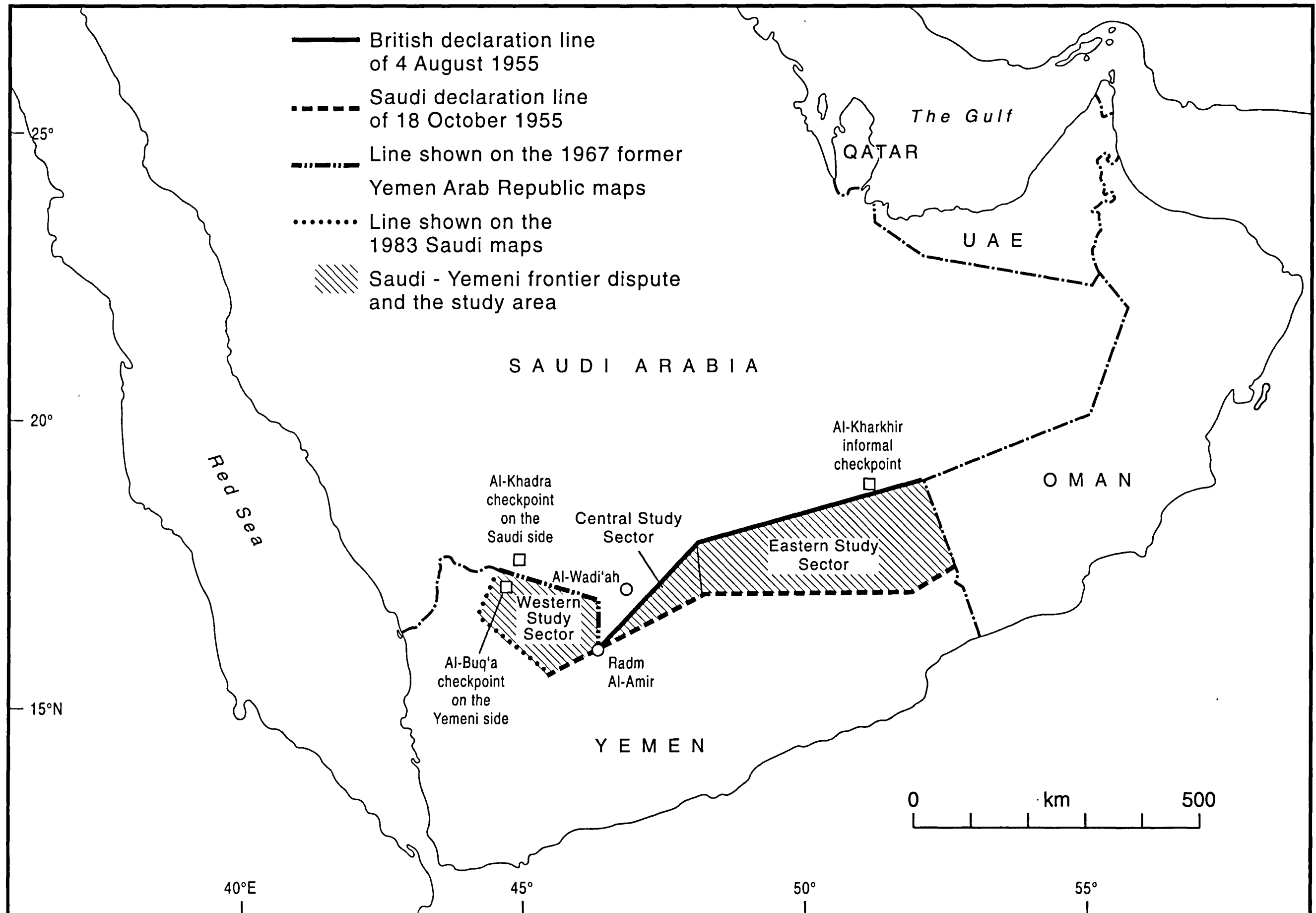
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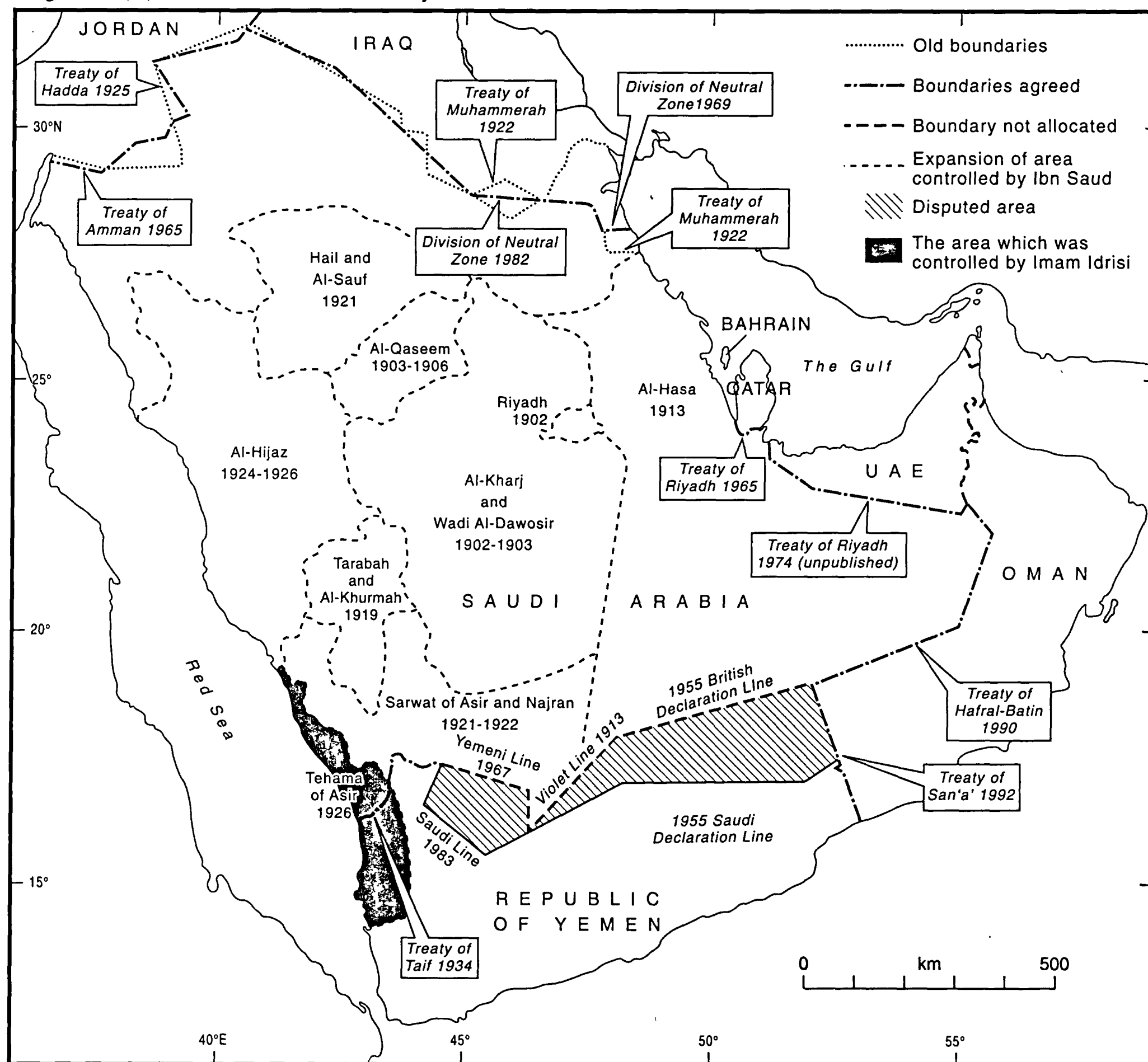
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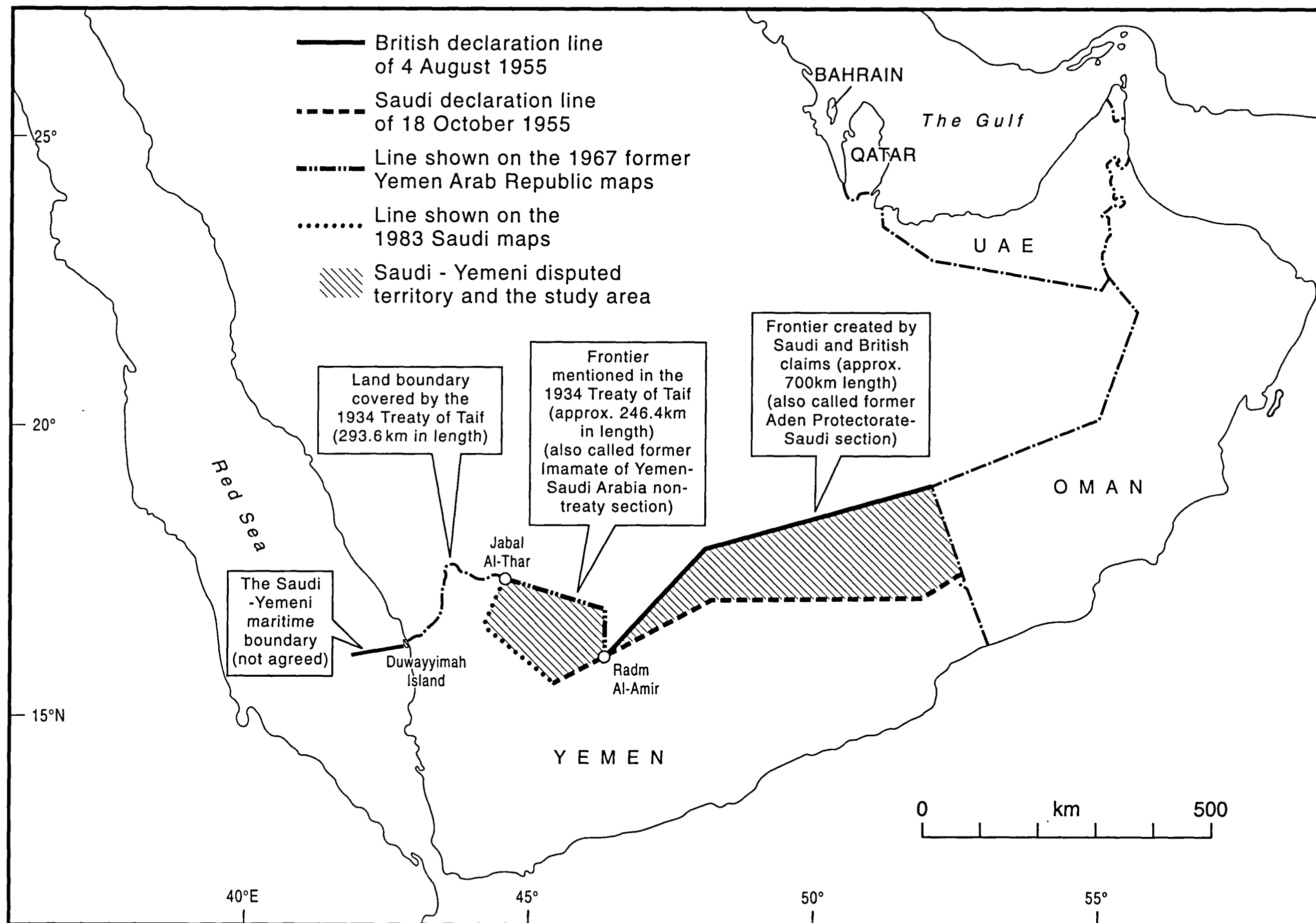


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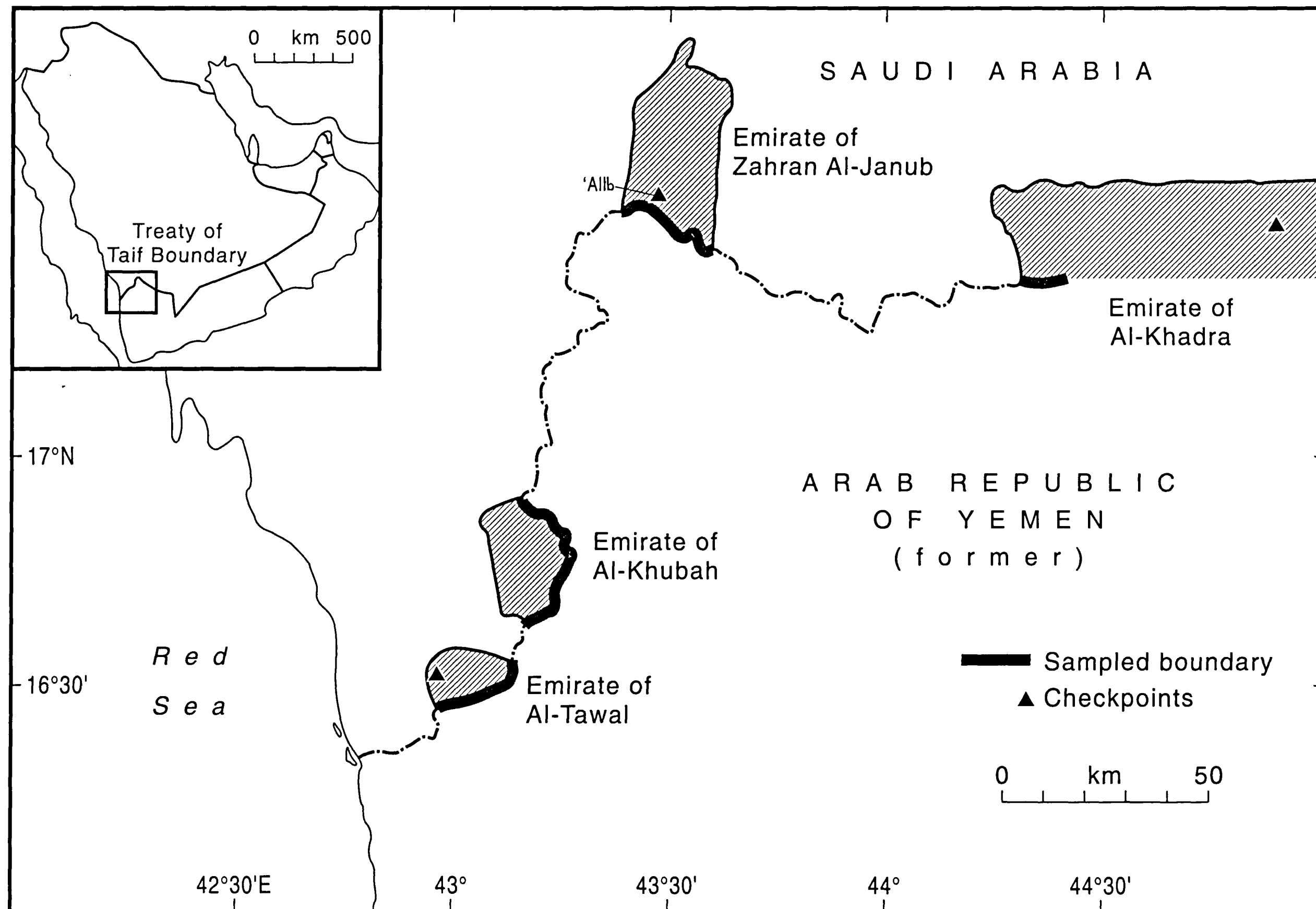
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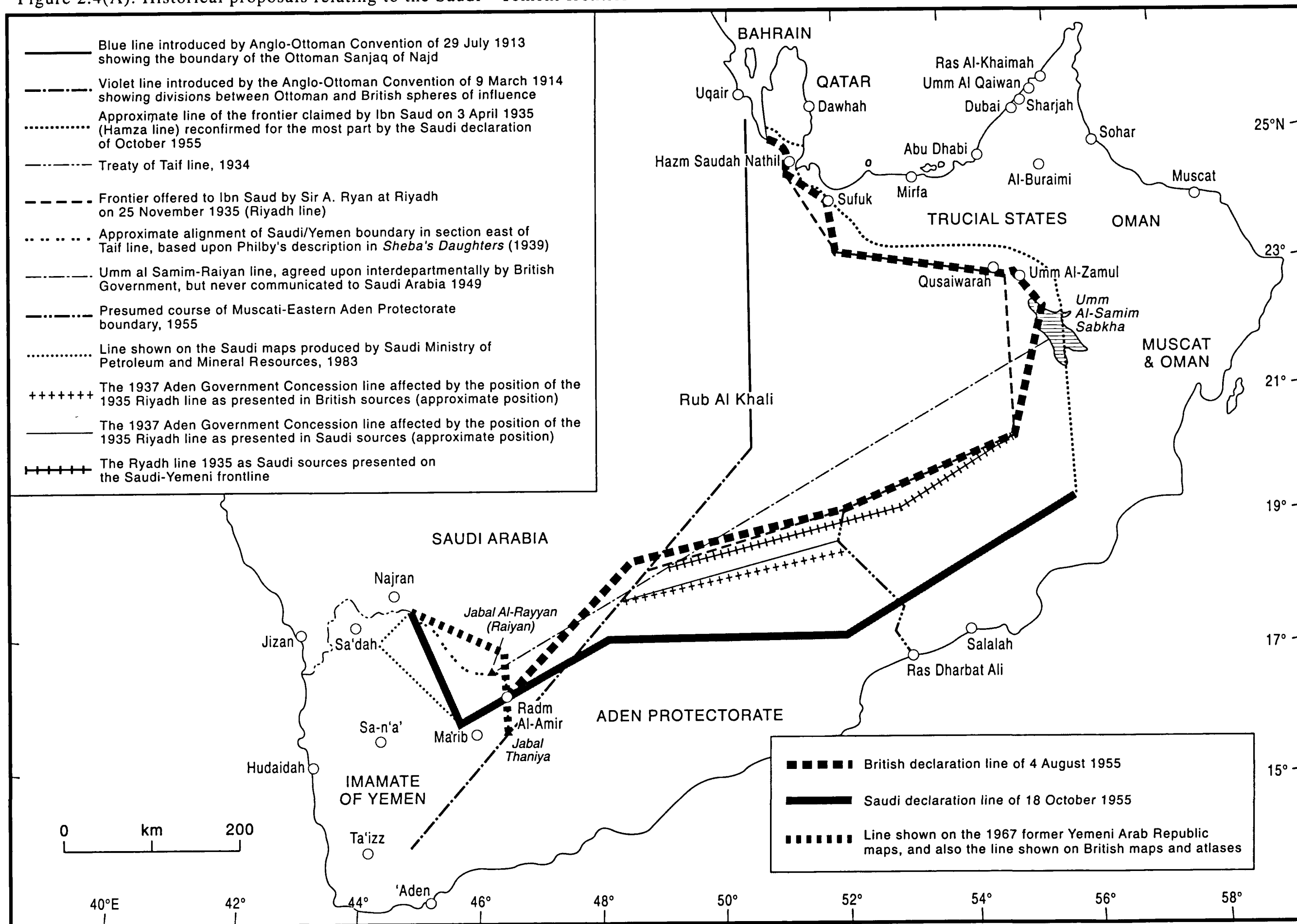
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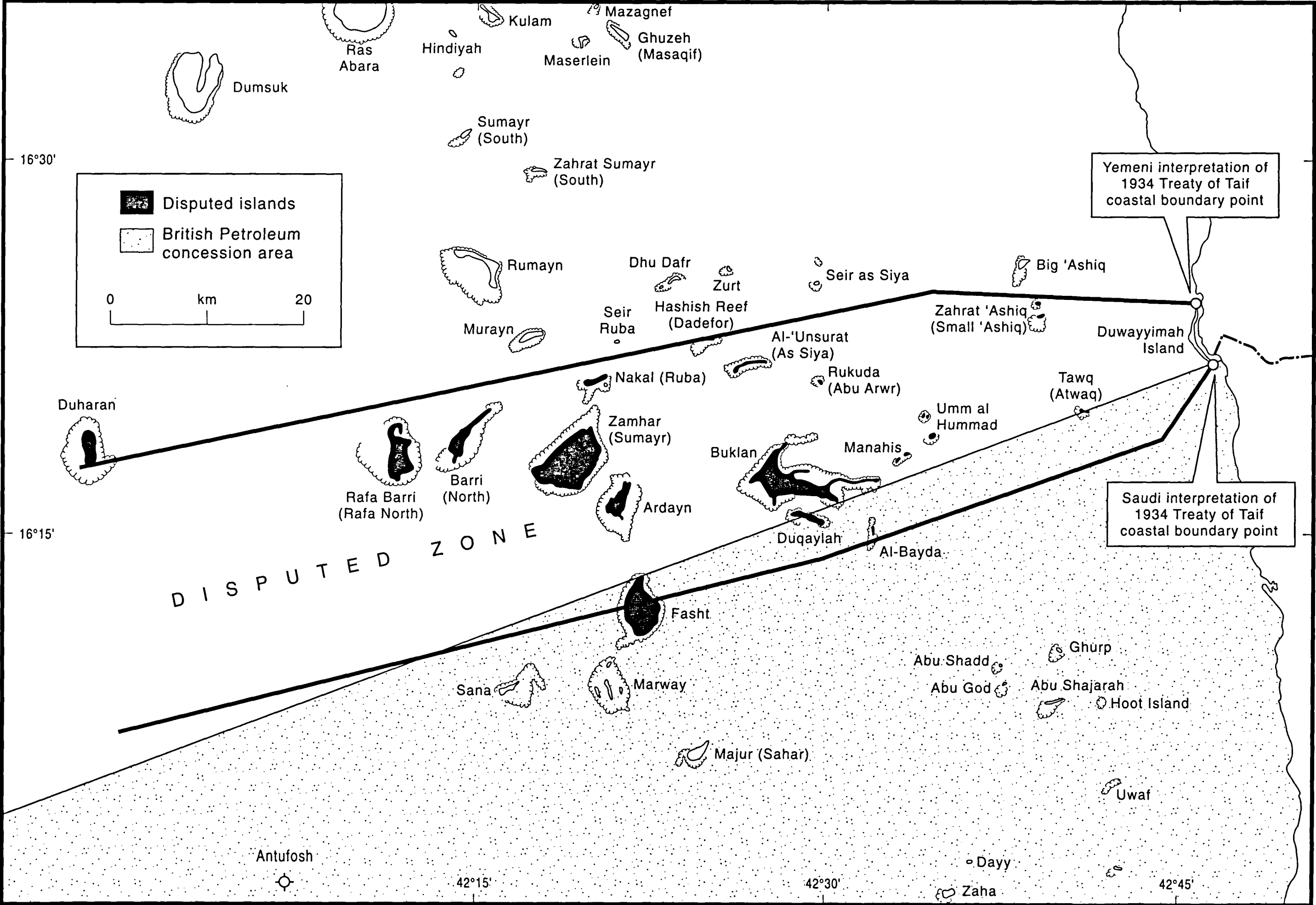
Source: after Al-Ghamdi 1991 p 42

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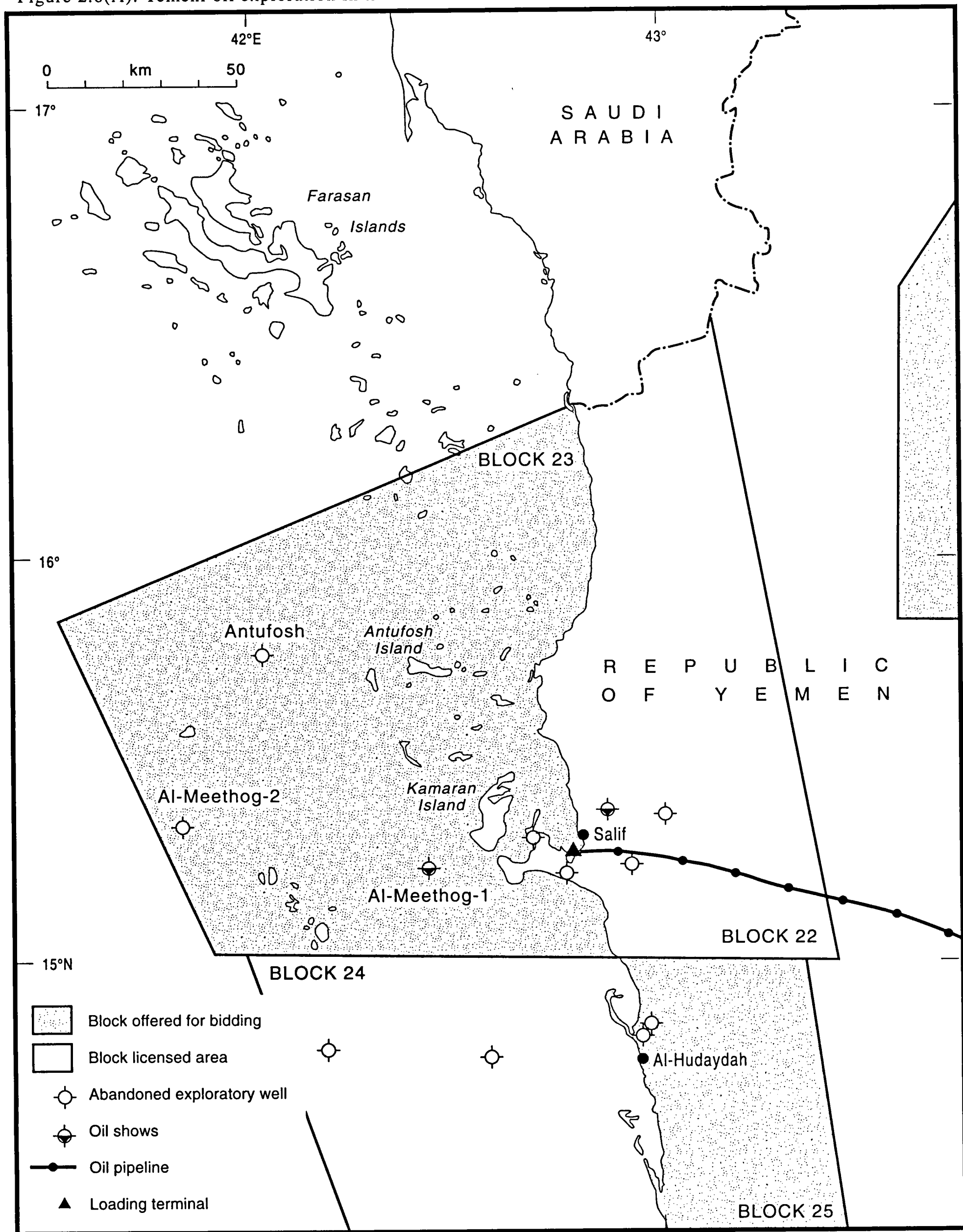
Source: after Schofield 1994 pp 22-23 with a few modifications by the author

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Source: Tracing on Jaza'ir Farasan Map 1990

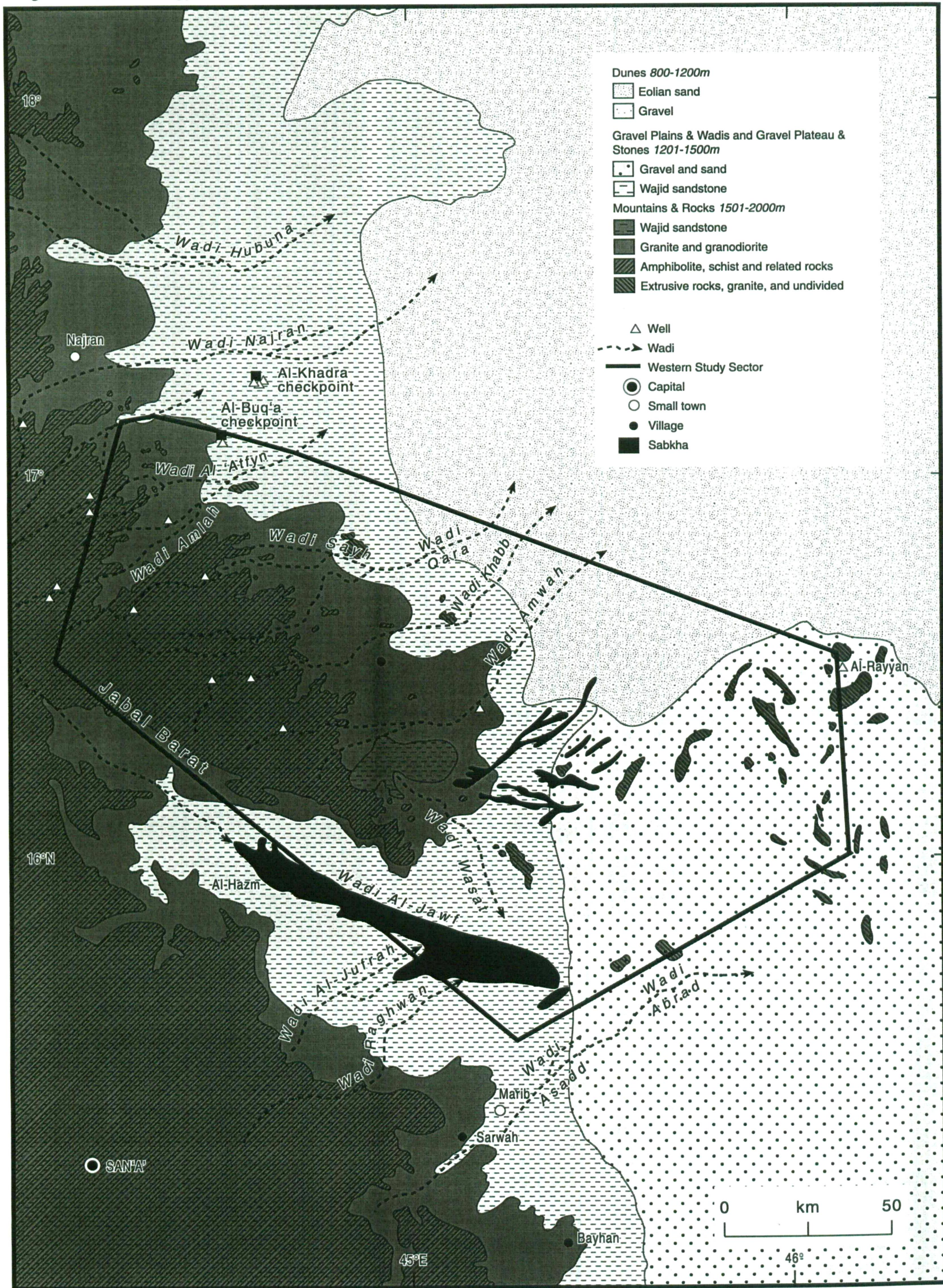
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Source: Foreign Scouting Service Petroleum Activity, 1994



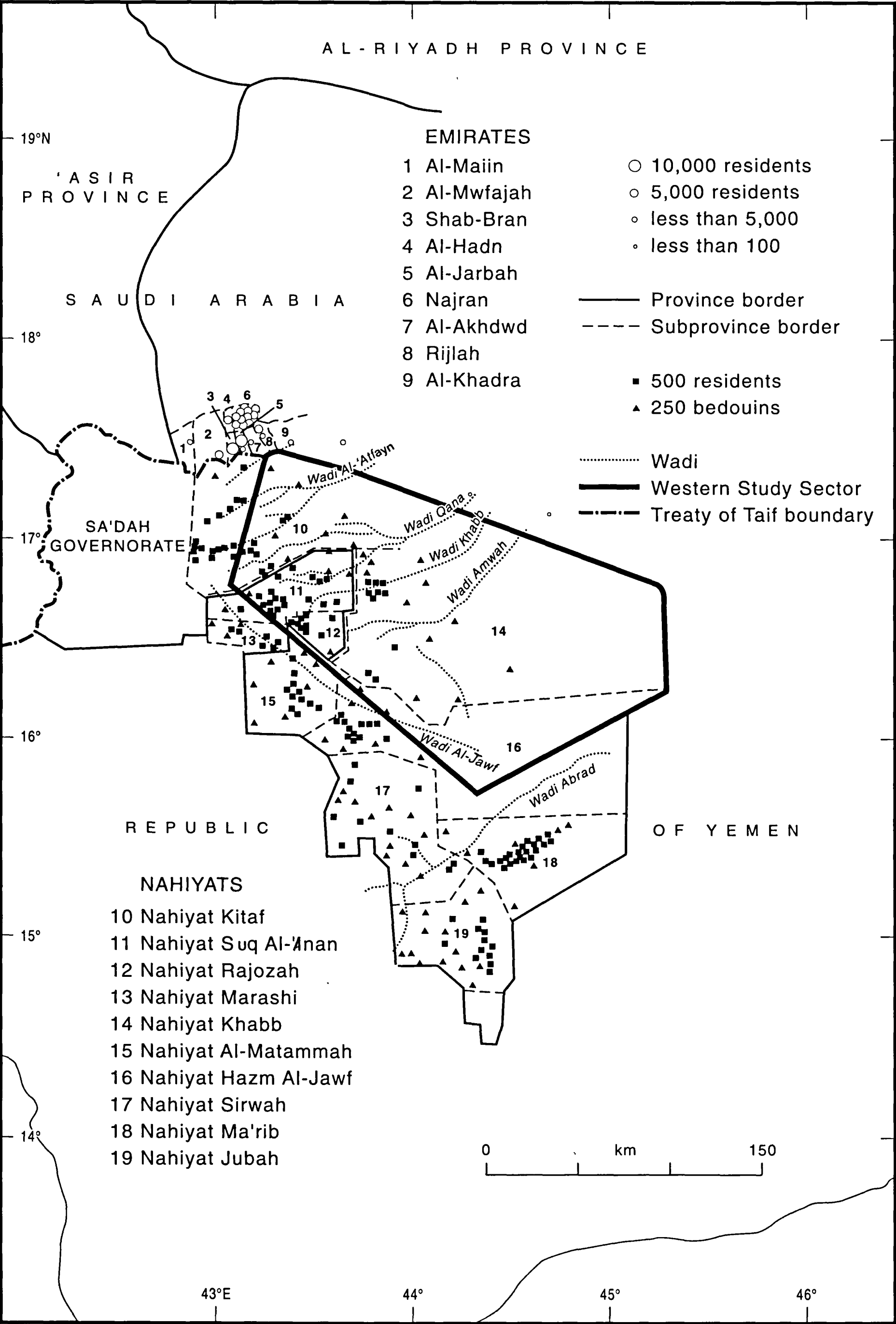
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Source: US Geological Survey 1963; 1979; GMWRQ (K.S.A.); GMAQ (K.S.A.); MSD 1992 Rof Yemen (Saudi Map)



Figure 3.5(A): Population distribution in the Western Study Sector



Source: Swiss Technical Co-operation Service 1978 p.II/127, Saudi Census 1994



The map displays the administrative boundaries of Saudi Arabia and the United Arab Emirates (UAE). Major cities and towns are marked, including Al-Raiyan, Al-Doha, Abu Dhabi, Al-Dfrah, Najran, Al-Khadra, Al-Buq'a, Al-Hasyniyah, Al-Sharjah, Al-S'aid, Al-Harshaf, Al-Rwikabh, Al-May'in, Dhdah, Al-Swq, Al-'Aqiq, Sallbah, Ghawih, Al-Rbaa, Najran, Mihr, 'Alib, Atiis, Madrak, Sha'ir, Rmah, Wadi Qara, Wadi Khabb, Wadi Amwak, Wadi Wasat, Wadi Al-Jawf, Al-Zahir, Al-Ashraf, Zararh, Al-Ghayl, Barat, Al-Qaif, Kitaf, Nushur, Sa'dah, Al-'Attayn, Wadi Al-Jawf, Shaharah, Marib, Al-Udayn, Al-Jawf, Nushur, Al-Zahir, San'a', Barat, Wadi Wasat, Al-Qaif, Al-Ghayl, Wadi Amlah, Al-Ashraf, Kitaf, Khabb, Al-Far'a, Al-Hadnah, Al-Mwsatah, Al-Ytmah, Madrak, Sallbah, Sha'ir, Atiis, Wadi Al-'Attayn, Bayt Al-Faqih, Al-Bayda', Zararh, Shaharah, and Shuqra.

The map includes a legend with the following symbols:

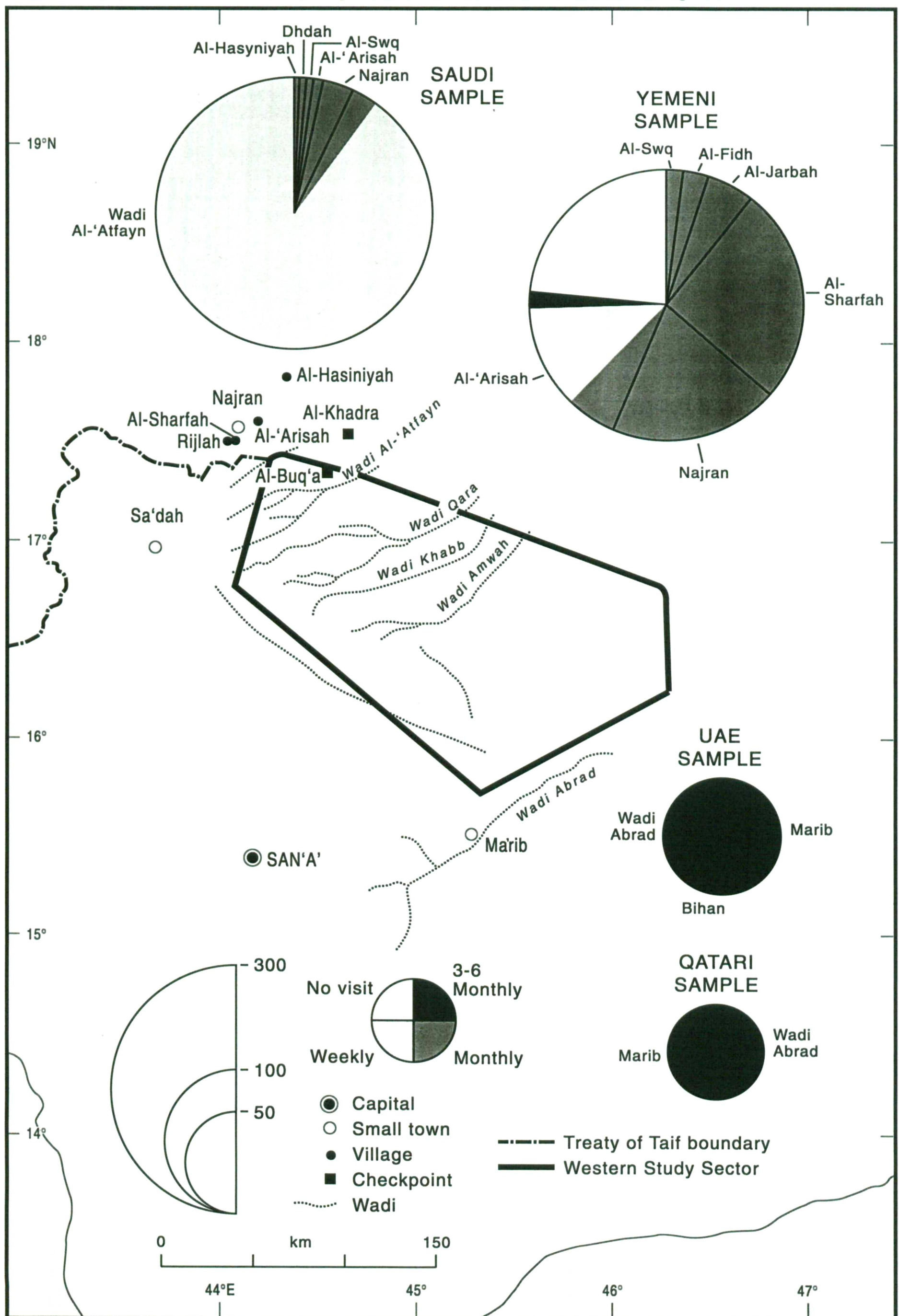
- Treaty of Taif boundary
- Administrative boundary
- Western Study Sector
- Capital
- Small town
- Village

The map also features a scale bar (0 to 150 km) and coordinates (14°N to 19°N, 44°E to 47°E). Three pie charts are included:

- QATARI SAMPLE:** A pie chart with a single segment labeled "Al-Raiyan".
- SAUDI SAMPLE:** A pie chart with segments labeled: Al-Harshaf, Al-S'aid, Al-Sharjah, Rmah, Sha'ir, Madrak, Atiis, 'Alib, Mihr, Najran, Ghawih, Al-Rbaa, Sallbah, Al-'Aqiq, Al-Swq, Al-Hasyniyah, Dhdah, Al-May'in, Al-Rwikabh, and Al-Harshaf.
- YEMENI SAMPLE:** A pie chart with segments labeled: Wadi Al-'Attayn, Atiis, Sha'ir, Sallbah, Madrak, Al-Ytmah, Al-Mwsatah, Al-Hadnah, Al-Far'a, Khabb, Kitaf, Al-Ashraf, Wadi Amlah, Al-Ghayl, Al-Qaif, Wadi Wasat, San'a', Barat, Al-Zahir, Nushur, Al-Jawf, Al-Udayn, Shaharah, Zararh, Bayt Al-Faqih, Al-Bayda', and Wadi Al-'Attayn.

10

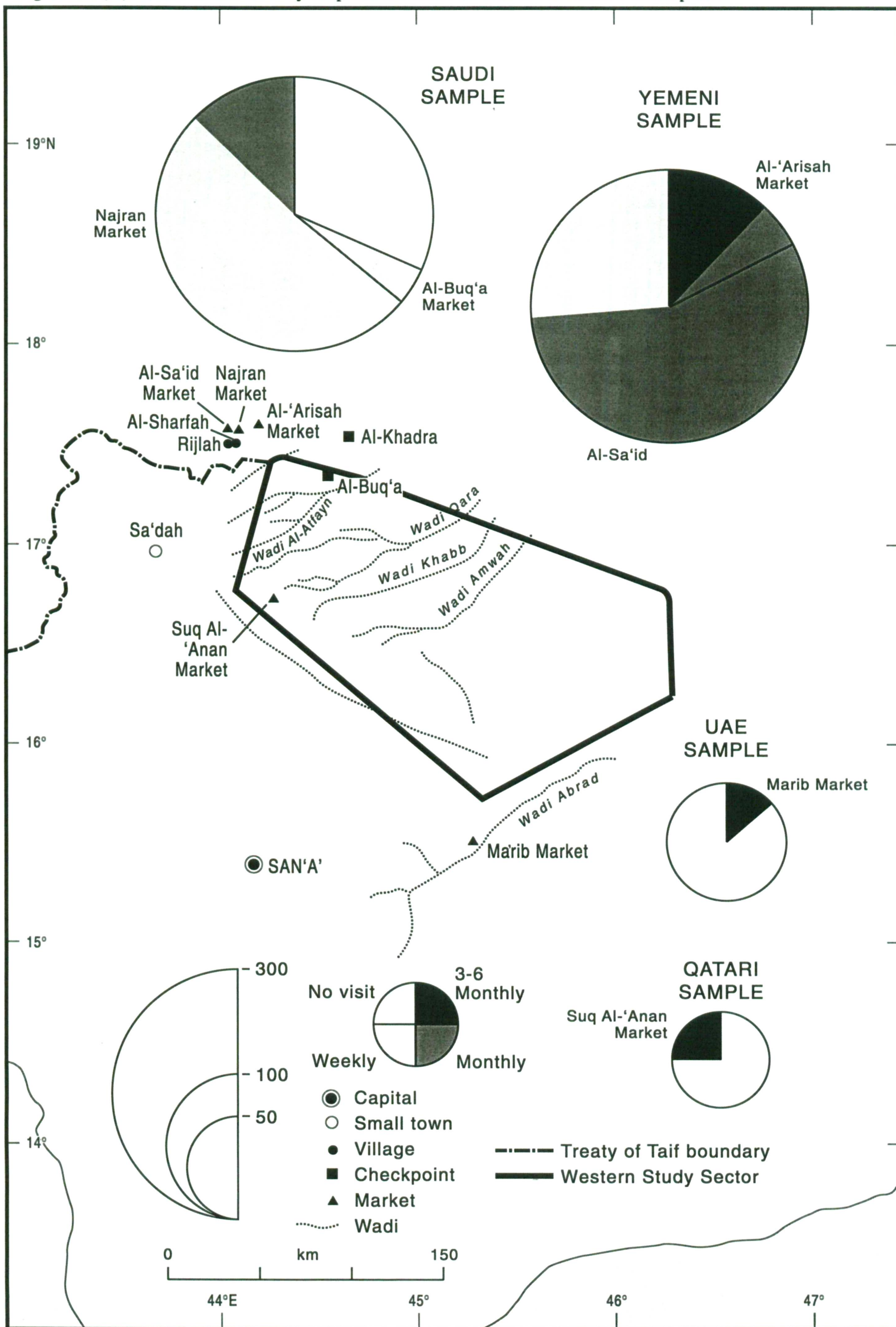
Figure 3.8(A): Visits to relatives by respondents interviewed at Al-Khadra checkpoint



Source: Author's Field Survey October - December 1994

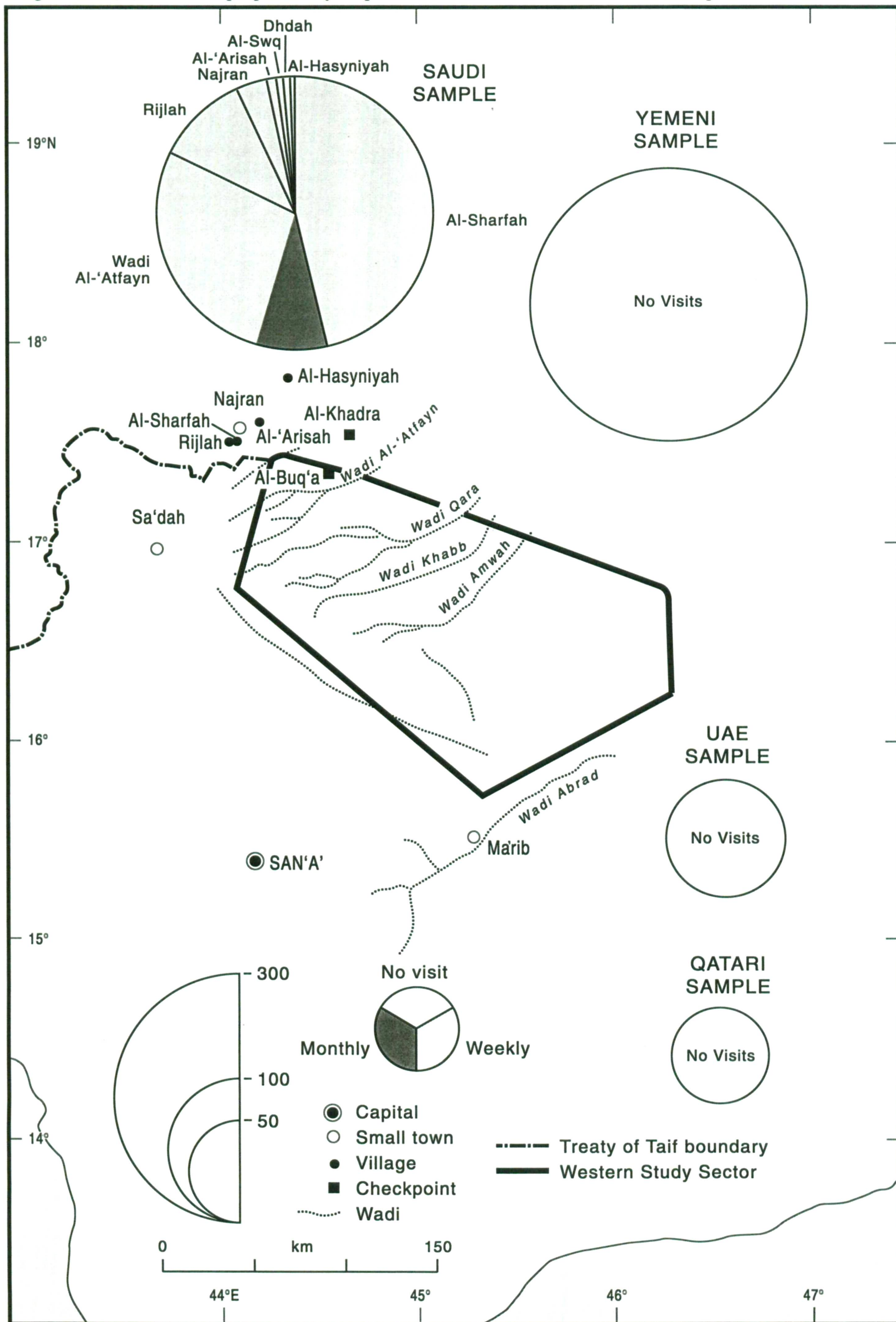


Figure 3.9(A): Visits to markets by respondents interviewed at Al-Khadra checkpoint



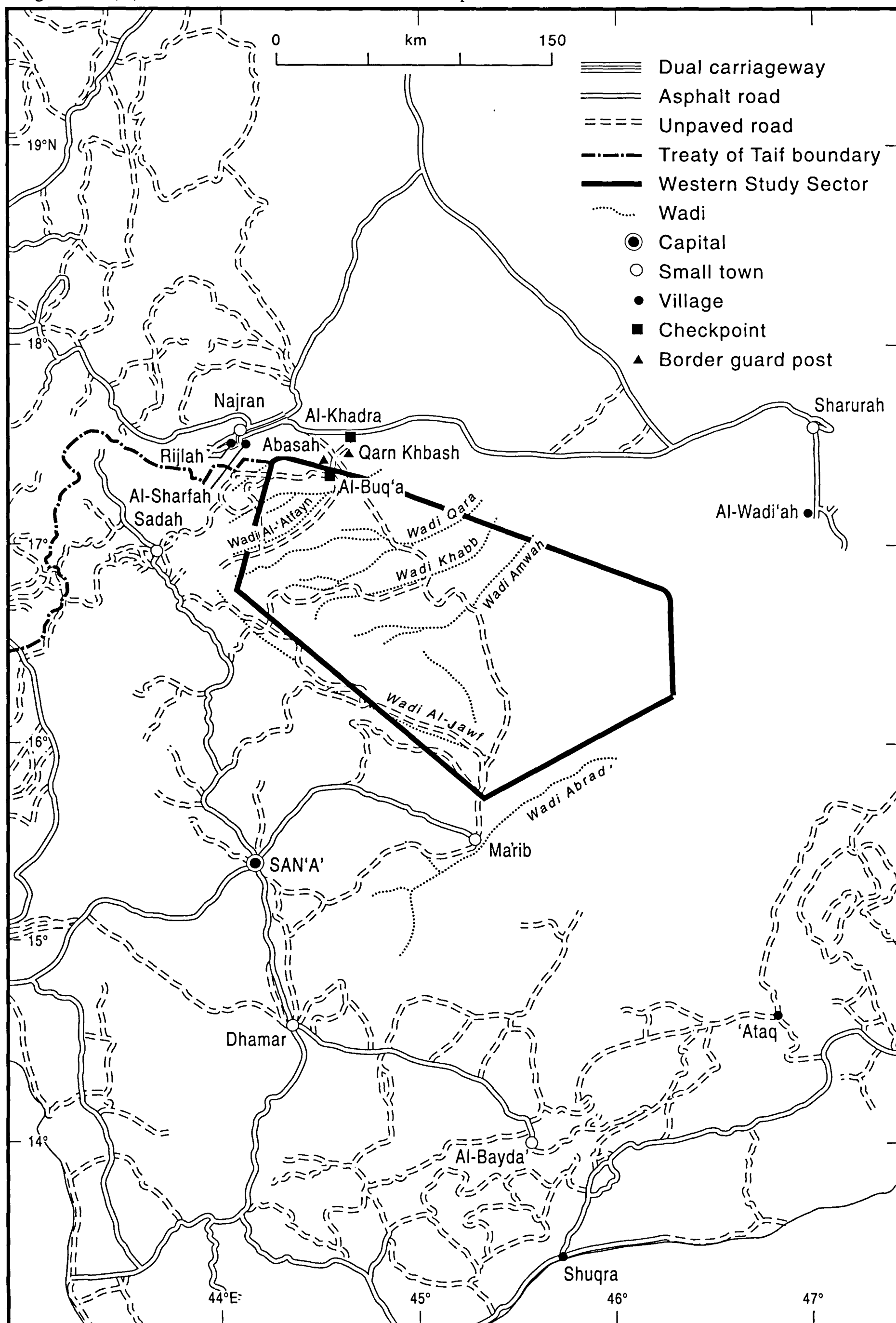
Source: Author's Field Survey October - December 1994

Figure 3.10(A): Visits to properties by respondents interviewed at Al-Khadra checkpoint



Source: Author's Field Survey October - December 1994

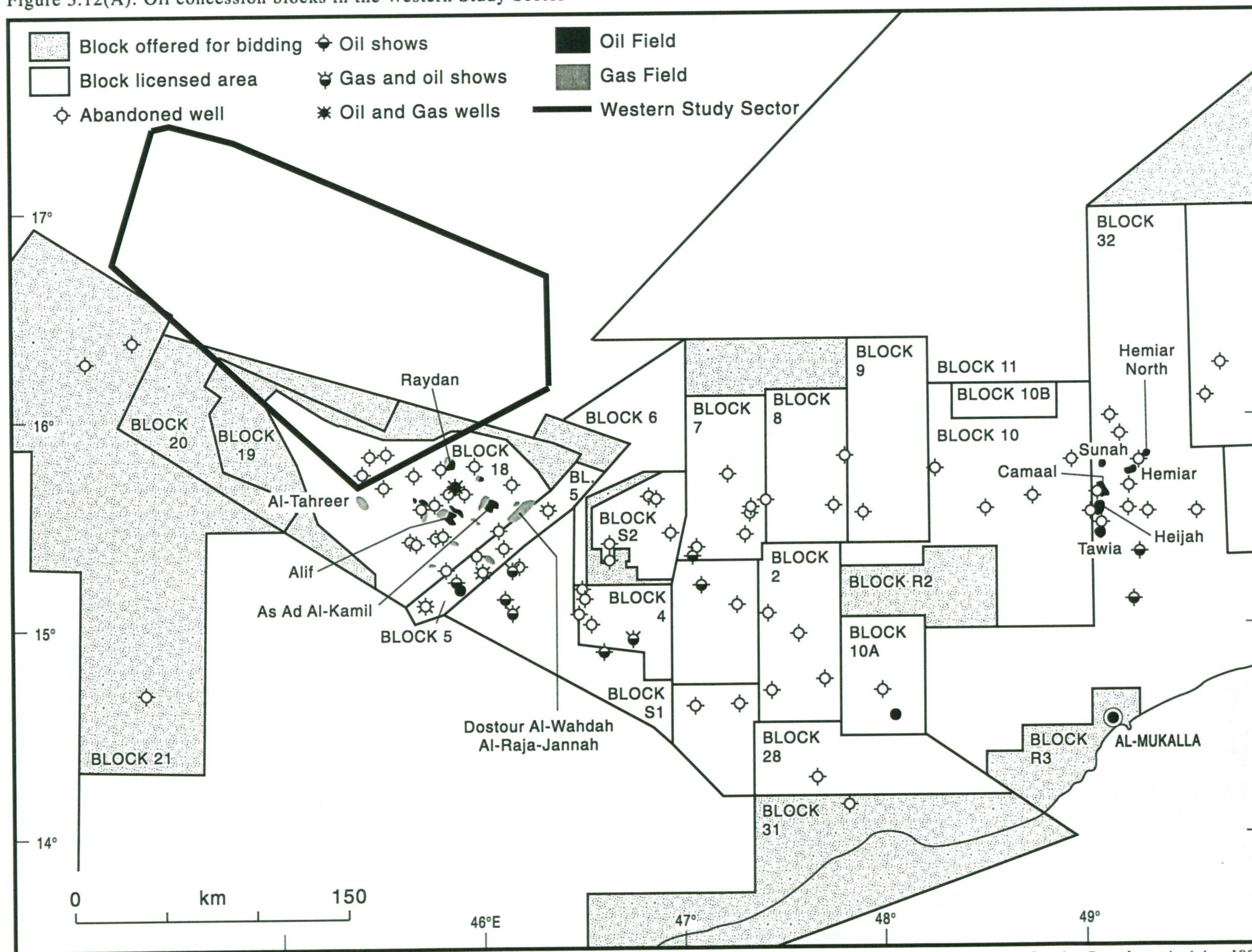
Figure 3.11(A): Roads and tracks to Al-Khadra checkpoint



Source: MSD 1992, Republic of Yemen (Saudi Map)



Figure 3.12(A): Oil concession blocks in the Western Study Sector



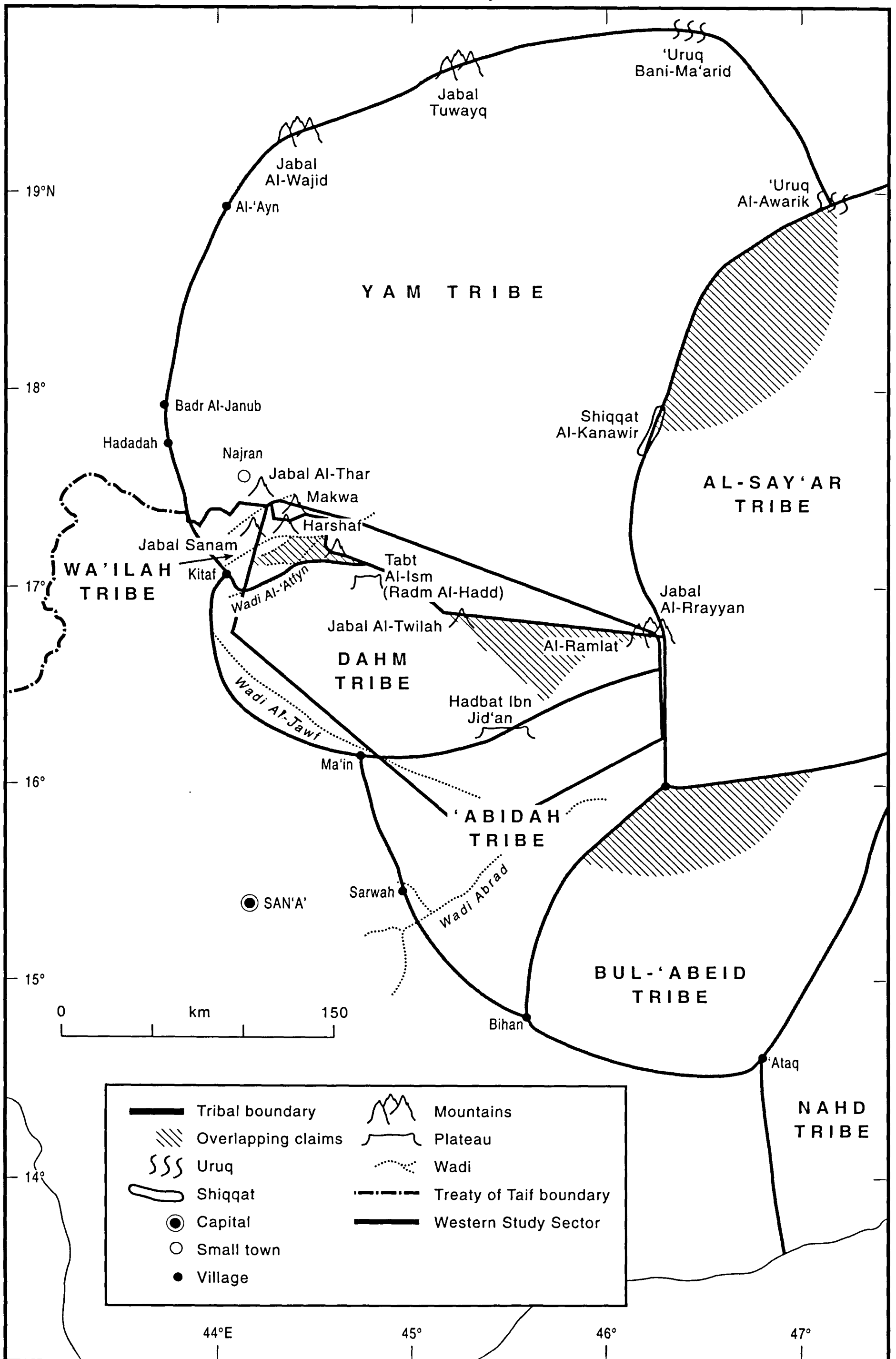
Source: Foreign Scouting Service Petroleum Activity, 1994







Figure 3.14(A): Distribution of tribes in the Western Study Sector



Source: Author's Field Survey October - December 1994



Figure 4.3(A): Geology and relief of the Central Study Sector

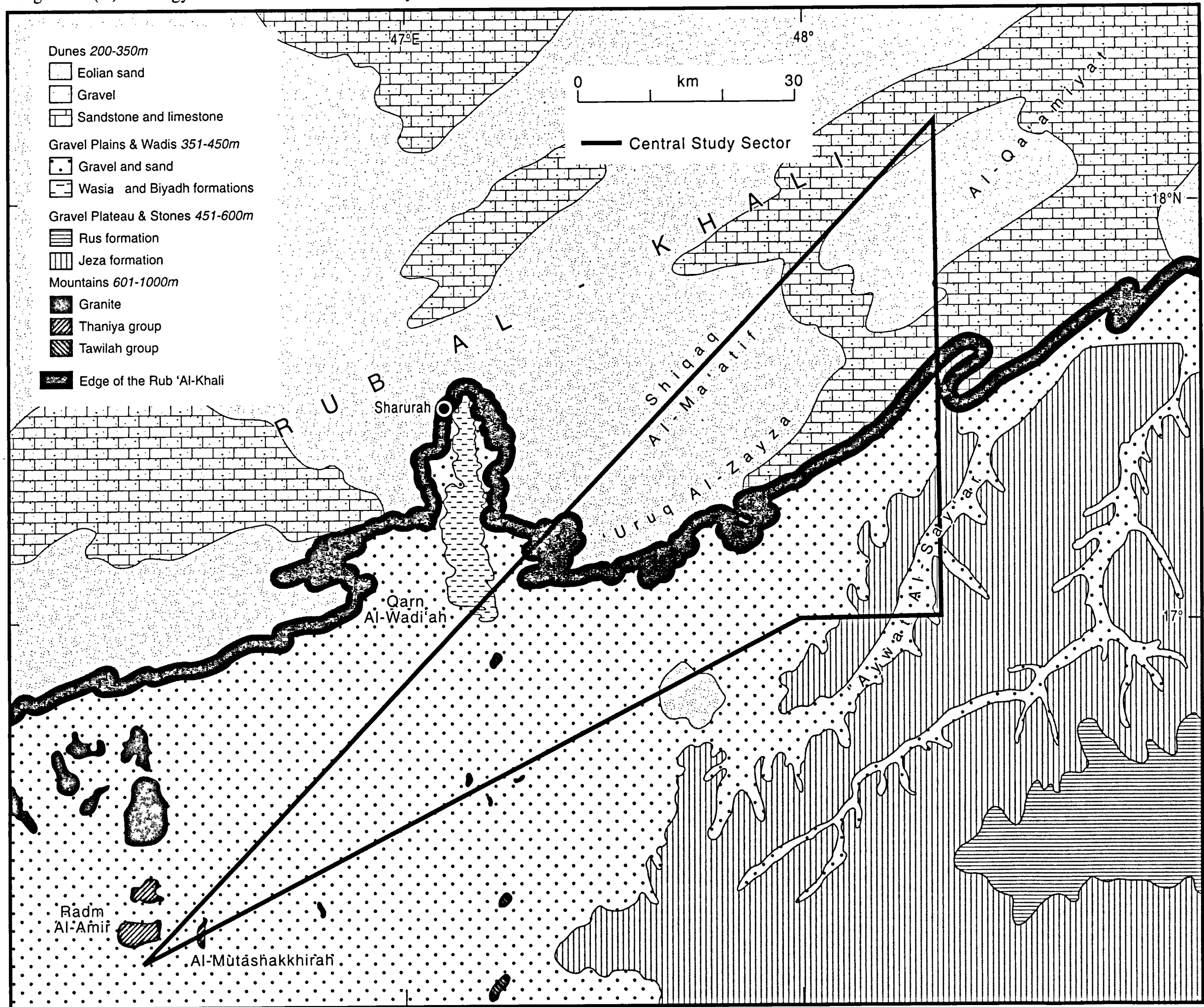
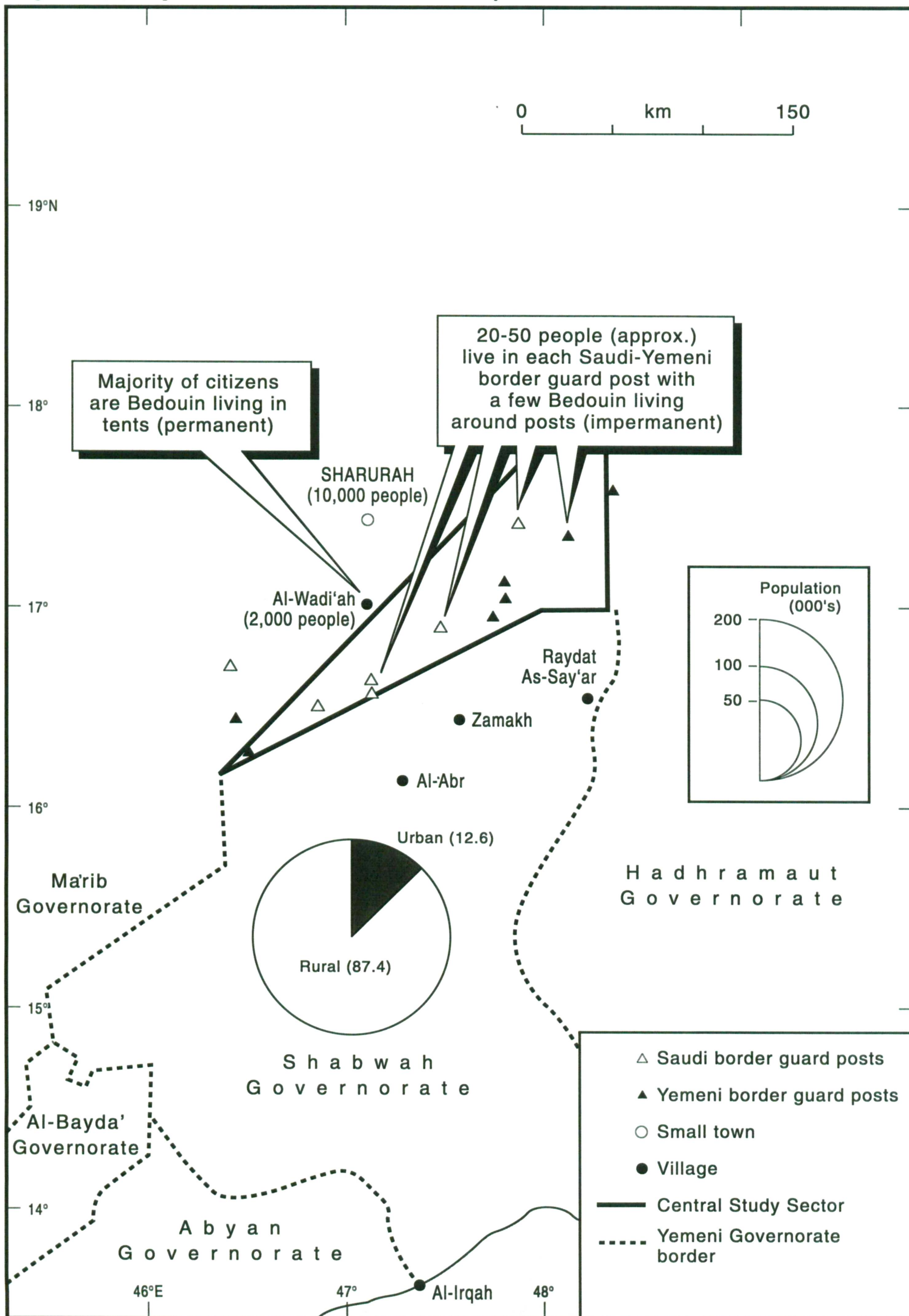
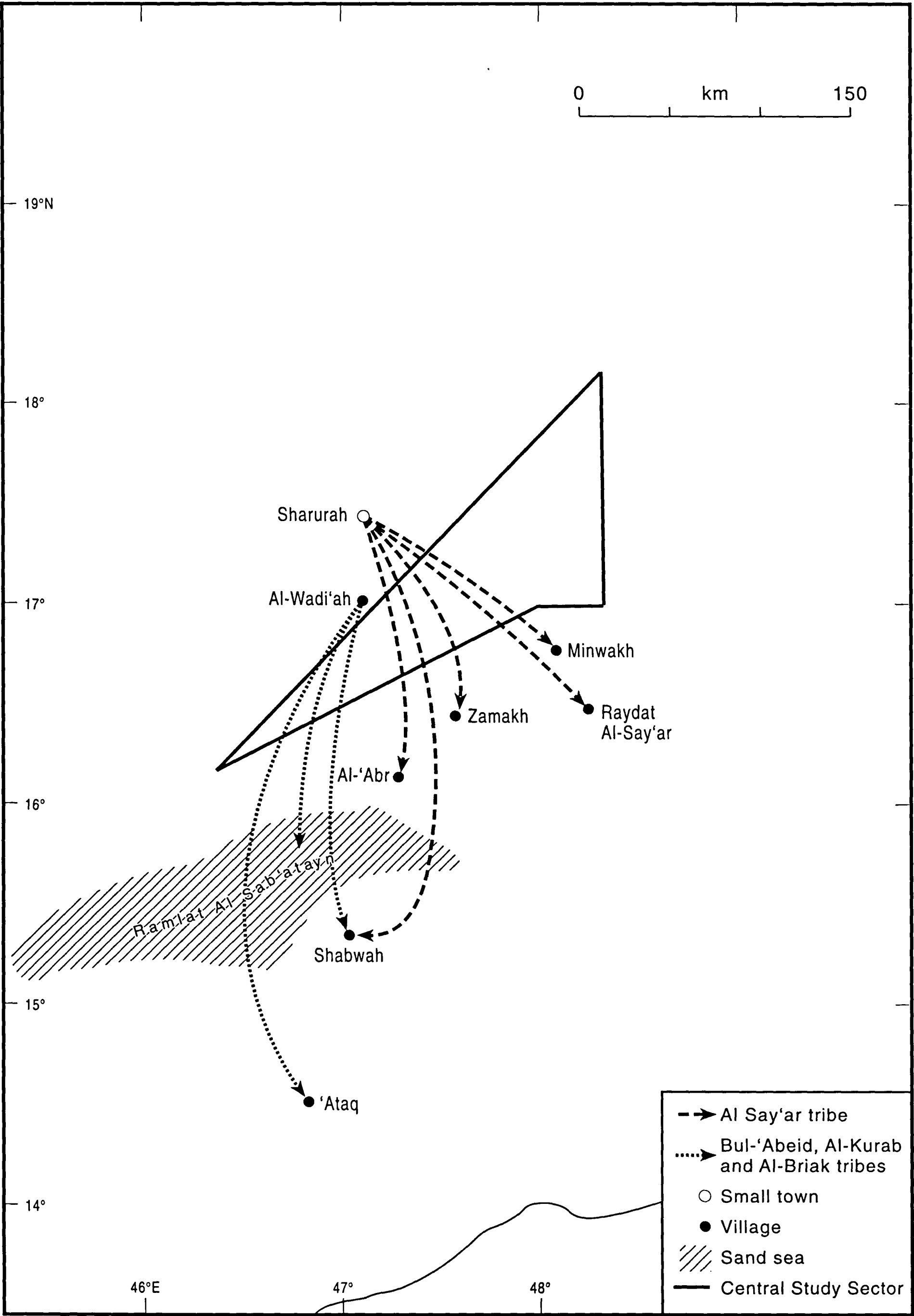


Figure 4.4(A): Population distribution in the Central Study Sector



Source: Saudi Census 1994; Yemeni Statistical Yearbook 1990

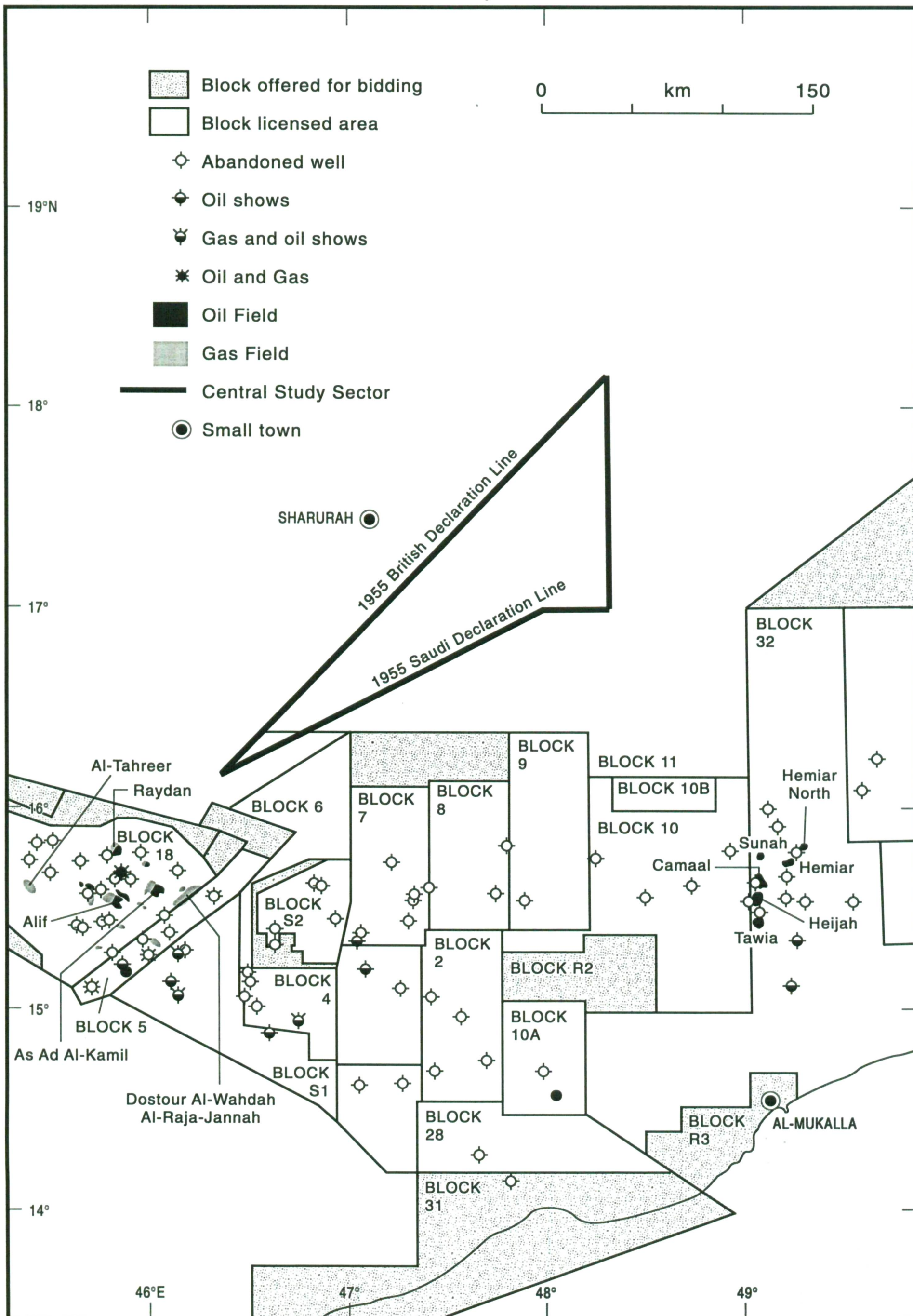
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Source: Author's Field Survey, September 1994



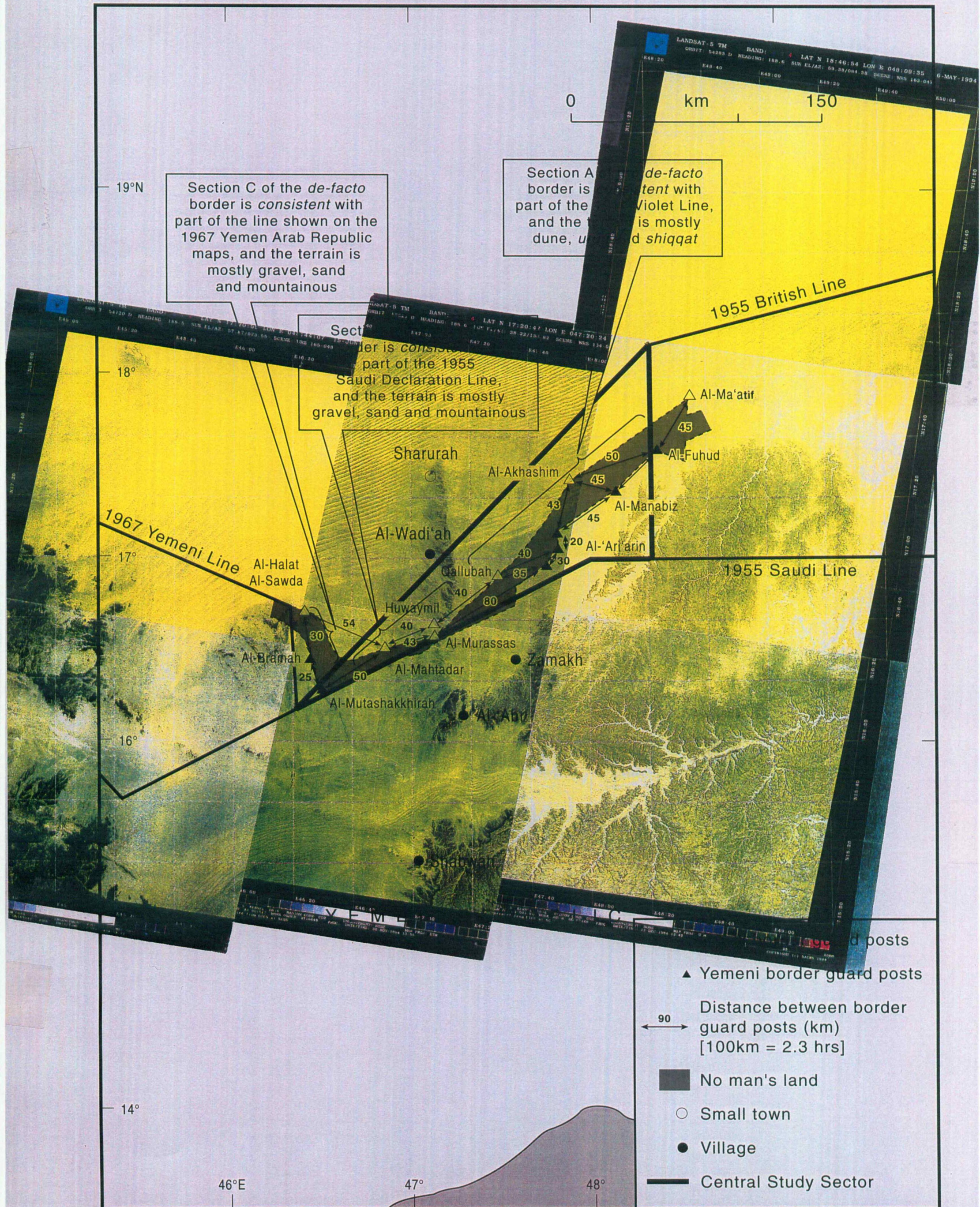
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Source: Foreign Scouting Service Petroleum Activity 1994



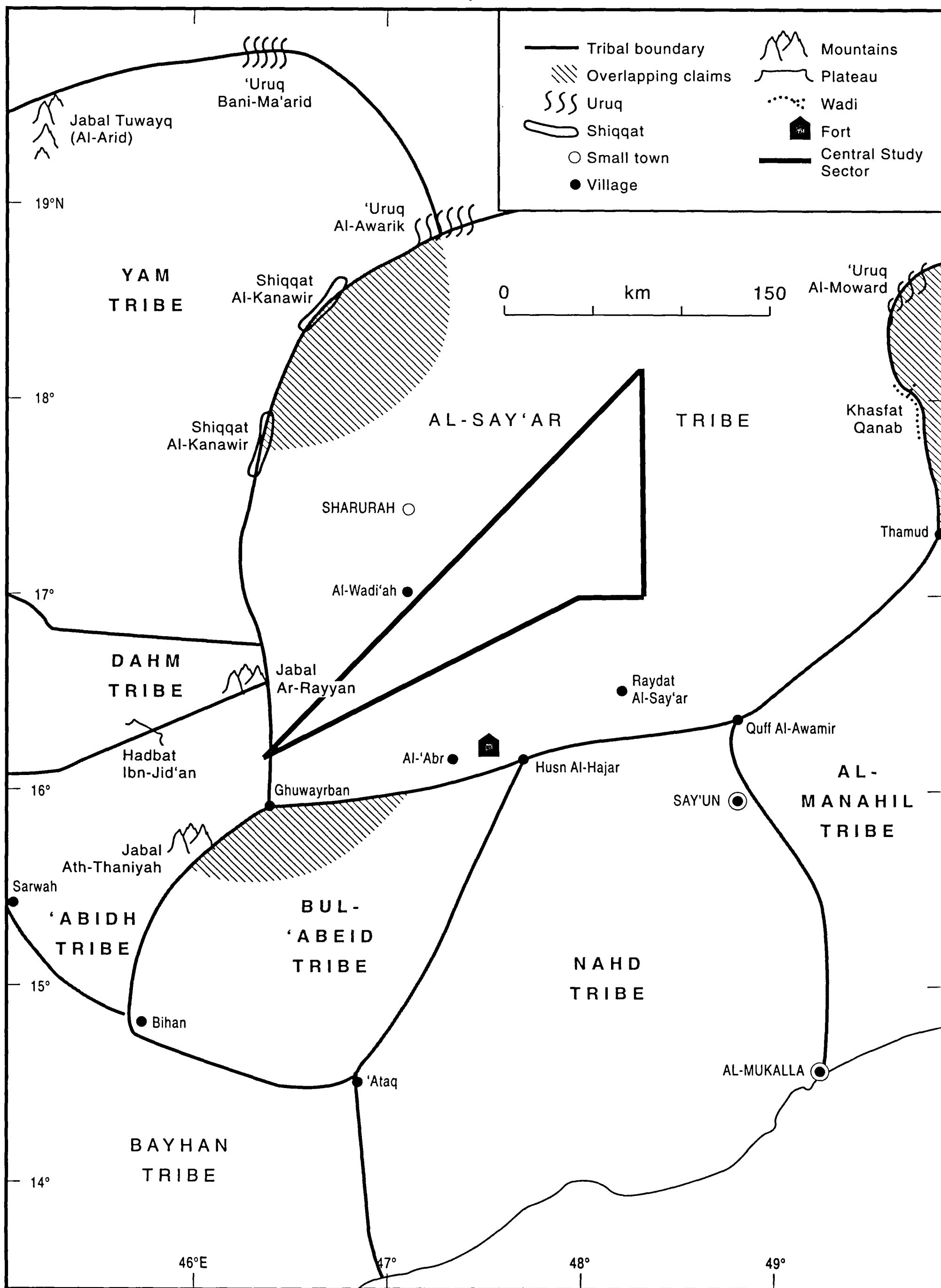
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Source: Author's Field Survey, September 1994

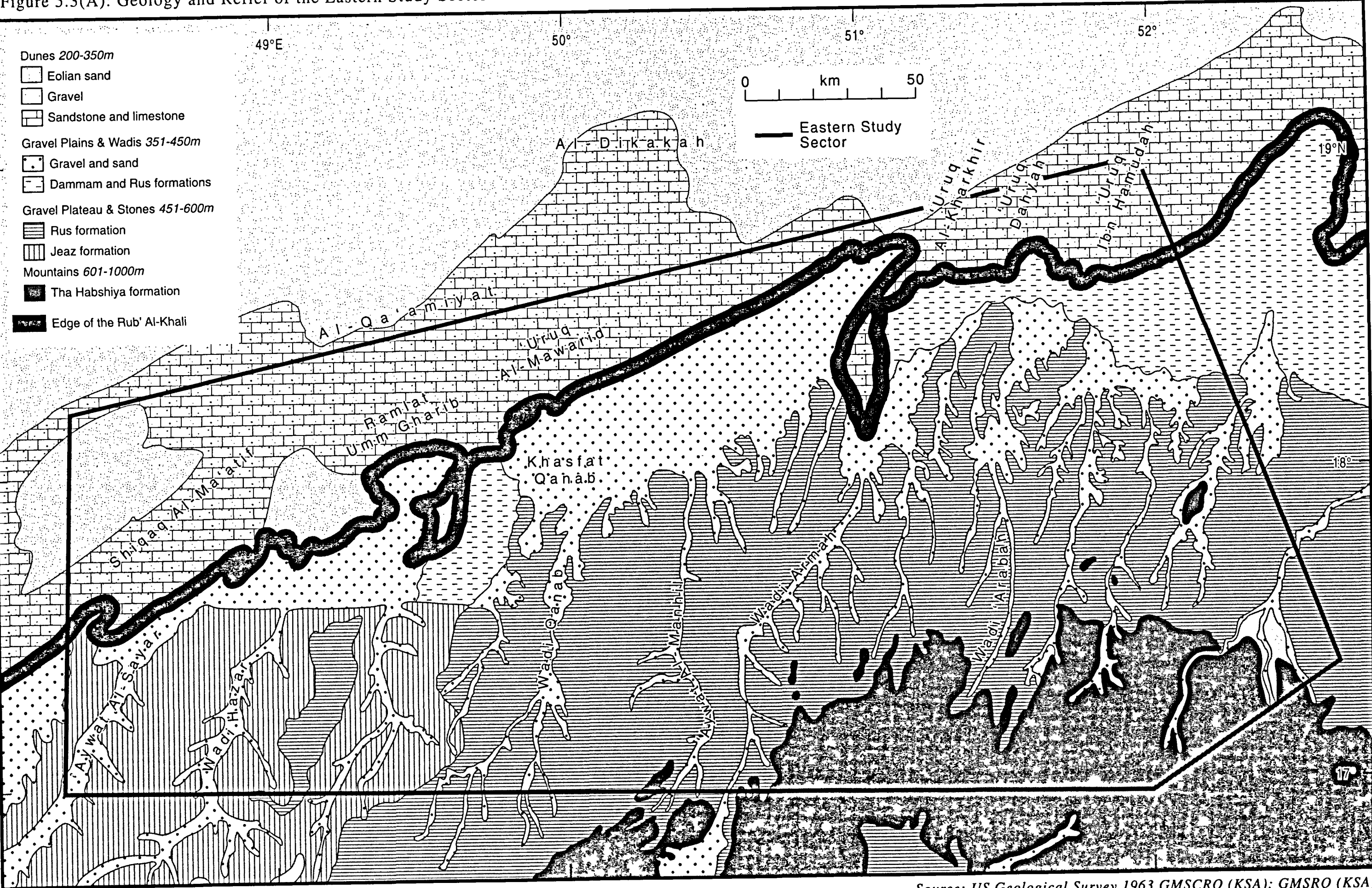


Figure 4.8(A): Distribution of tribes in the Central Study Sector



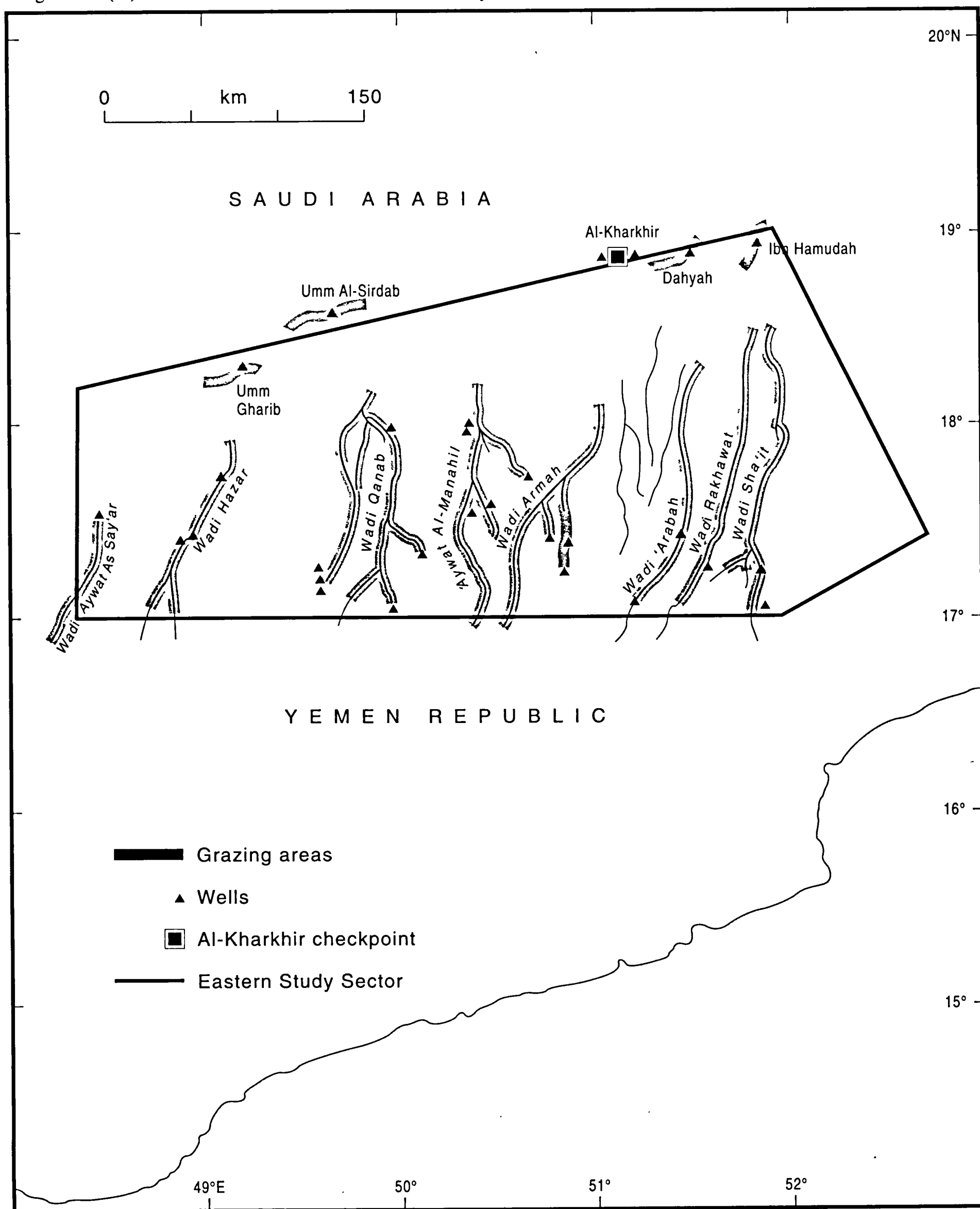
Source: Author's Field Survey, September 1994

Figure 5.3(A): Geology and Relief of the Eastern Study Sector



Source: US Geological Survey 1963 GMSCRQ (KSA); GMSRQ (KSA)

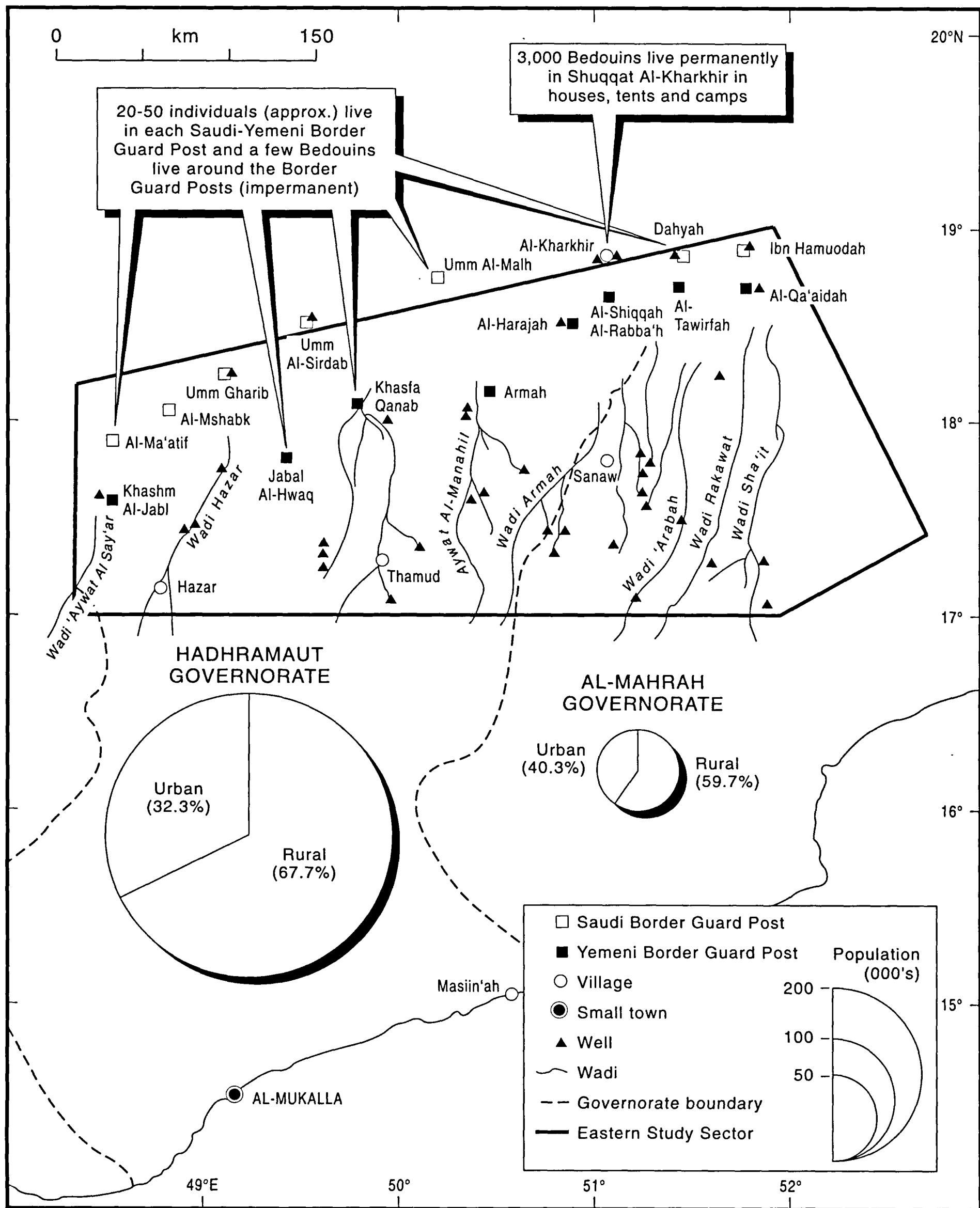
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Source: Author's Field Survey, July - September 1994

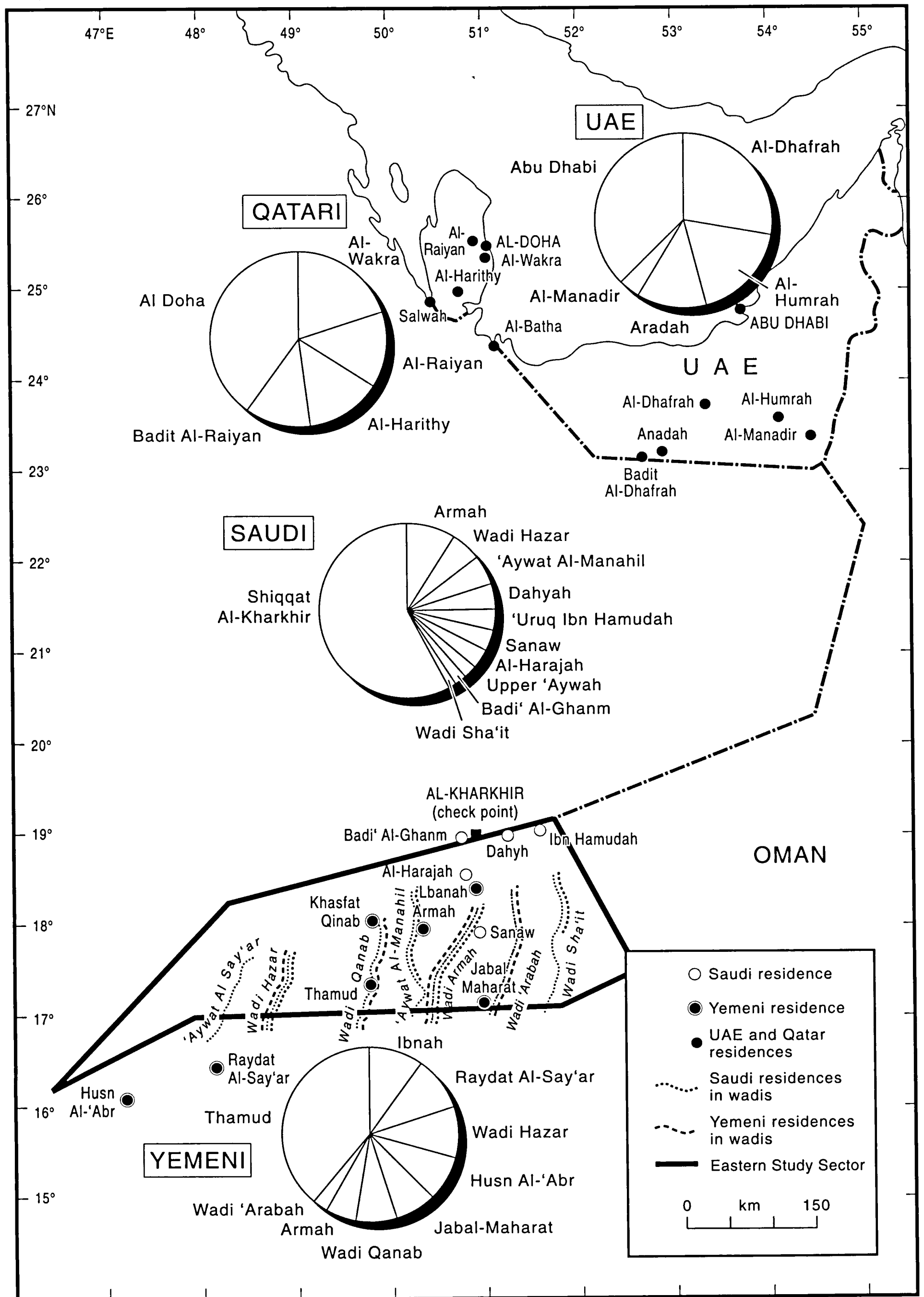


Figure 5.6(A): Population distribution in the Eastern Study Sector



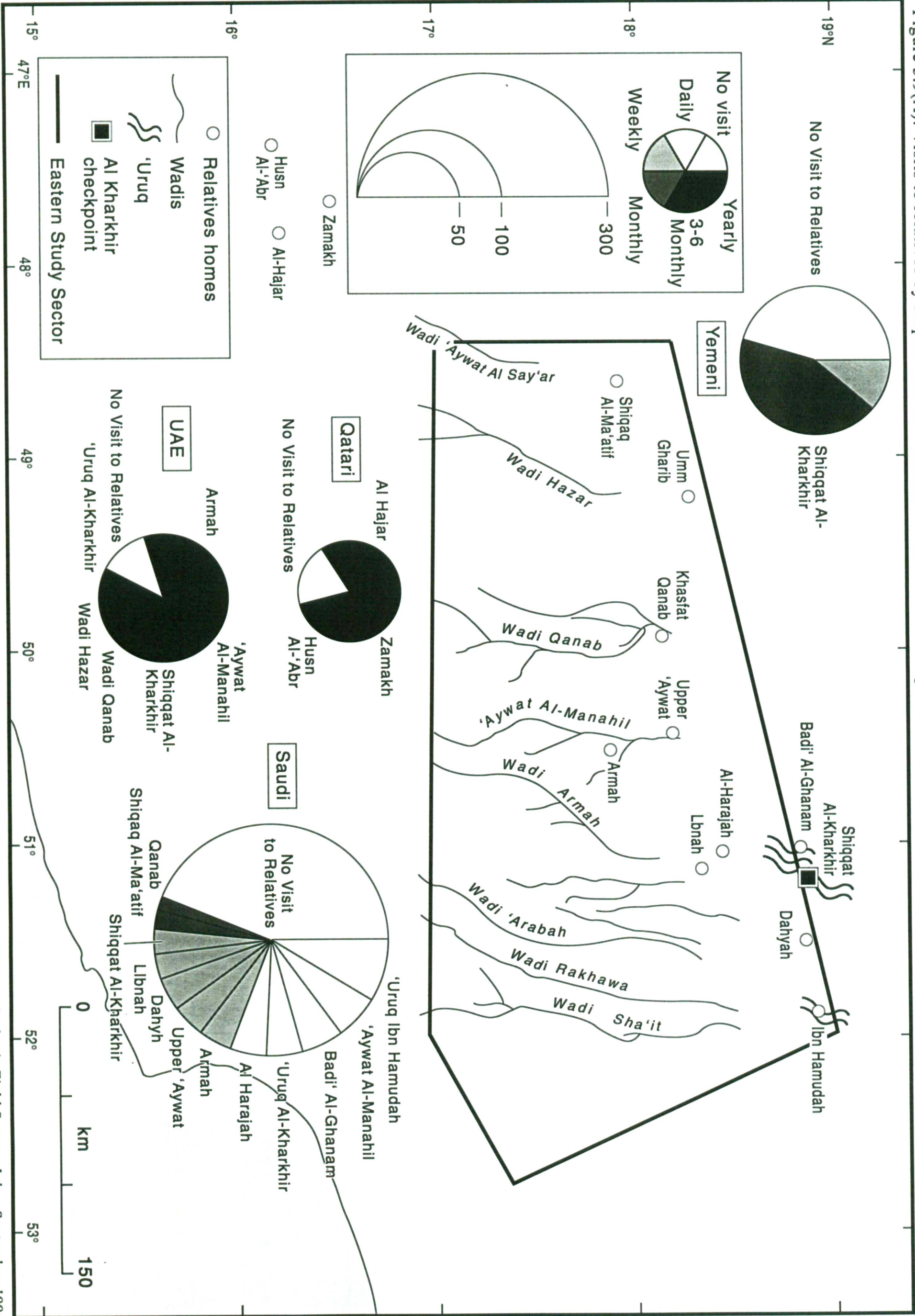
Source: Saudi Census 1994; Yemeni Statistical Yearbook 1990; MSD 1992 Republic of Yemen Map

Figure 5.7(A): Residence of respondents interviewed at Al-Kharkhir checkpoint



Source: Author's Field Survey, July - September 1994

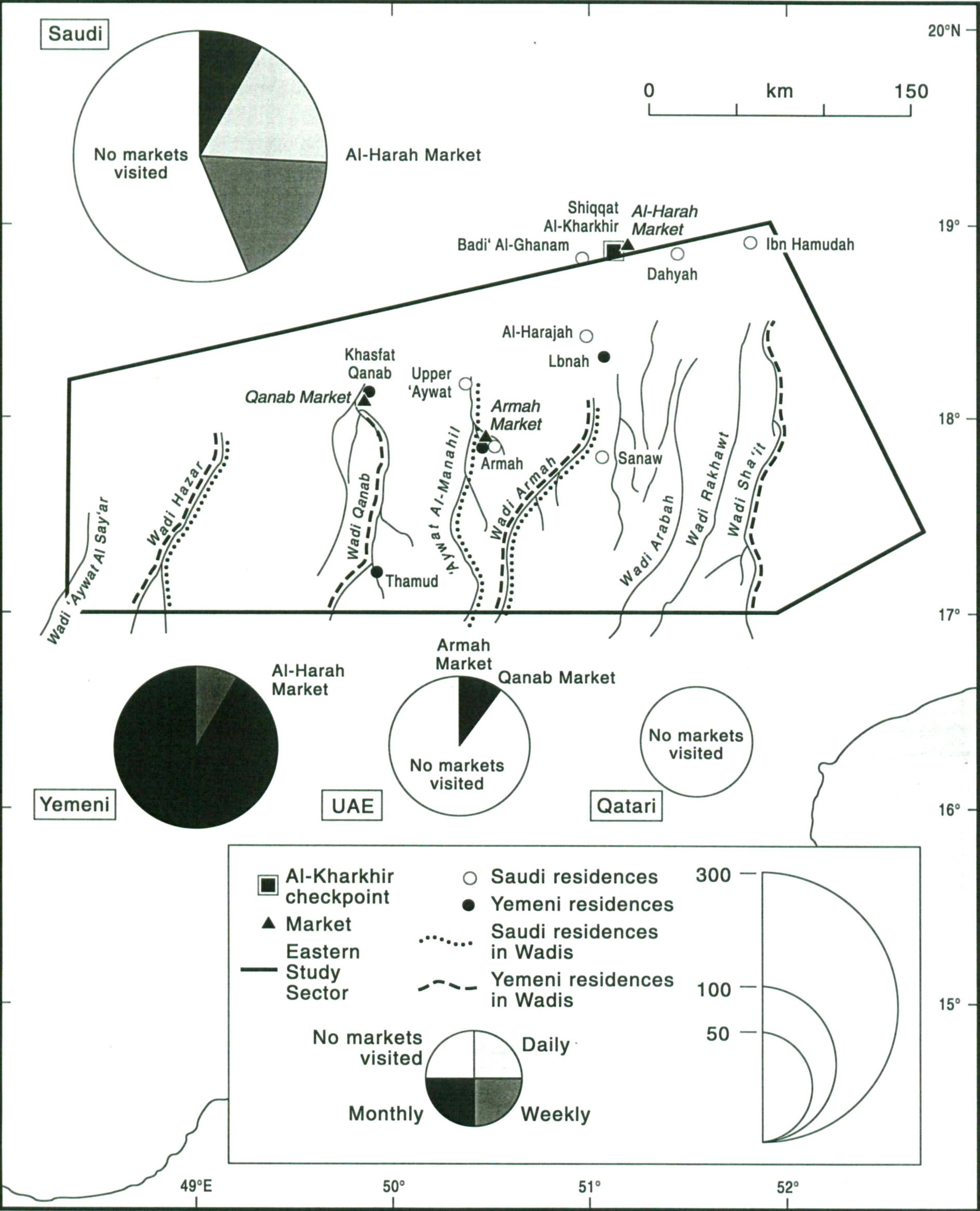
Figure 5.9(A): Visits to relatives by respondents interviewed at Al-Kharkhir checkpoint



Source: Author's Field Survey, July - September 1994

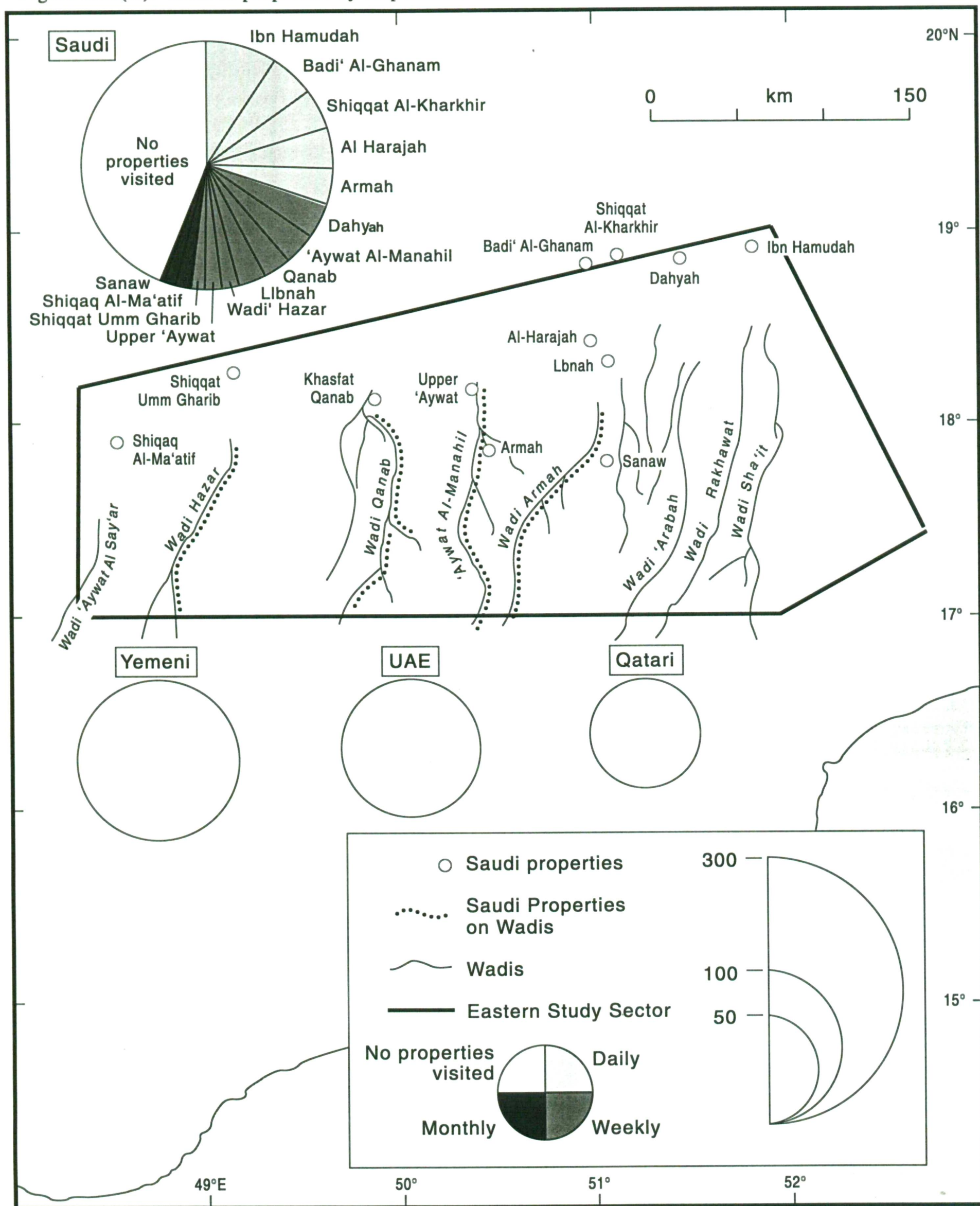


Figure 5.10(A): Visits to markets by respondents interviewed at Al-Kharkhir checkpoint



Source: Author's Field Survey, July - September 1994

Figure 5.11(A): Visits to properties by respondents interviewed at Al-Kharkhir checkpoint



Source: Author's Field Survey, July - September 1994

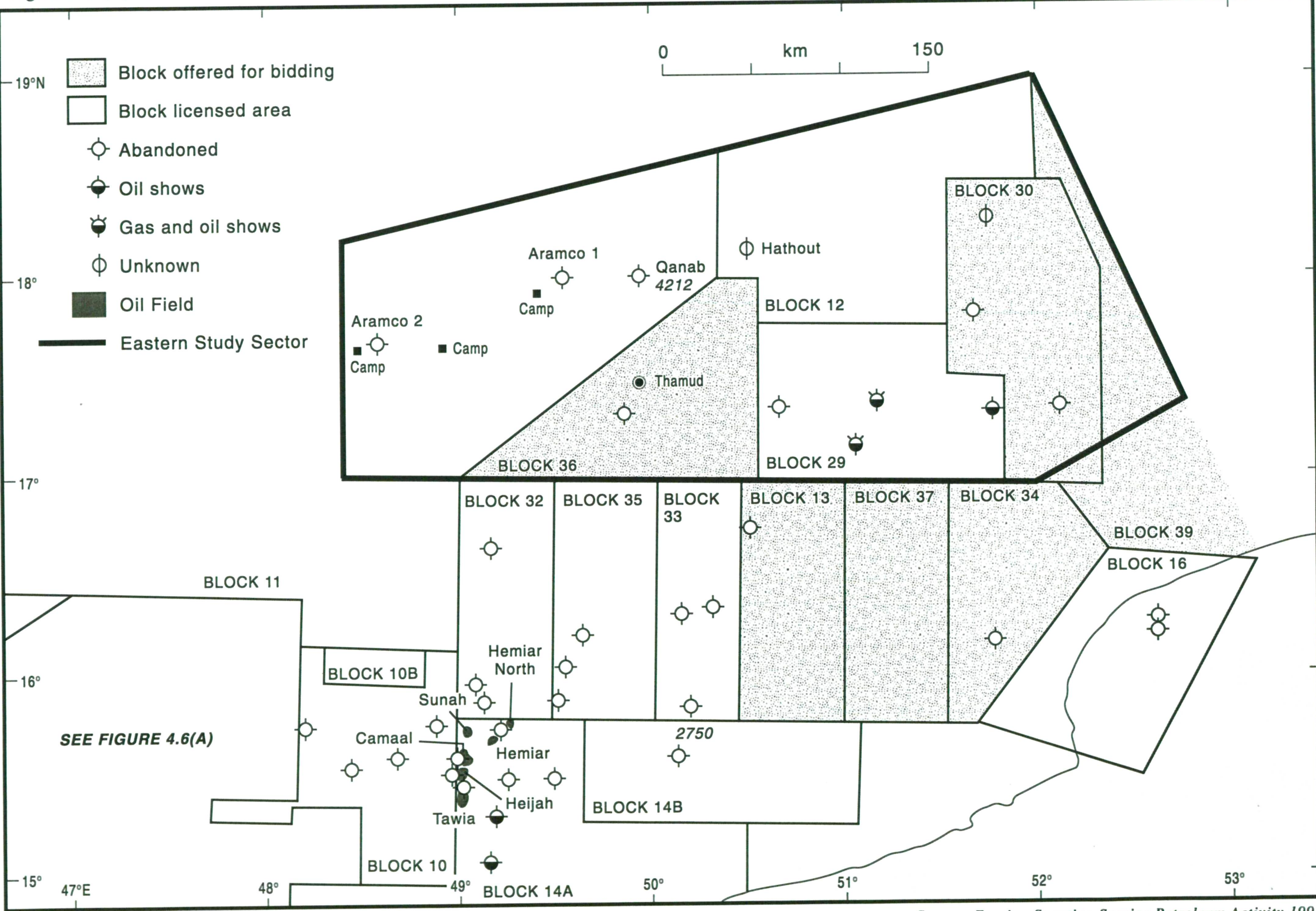
Figure 5.12(A): Roads and tracks to Al-Kharkhir checkpoint



Source: MSD 1992 Republic of Yemen map; MSD 1983 Arabian Peninsula map



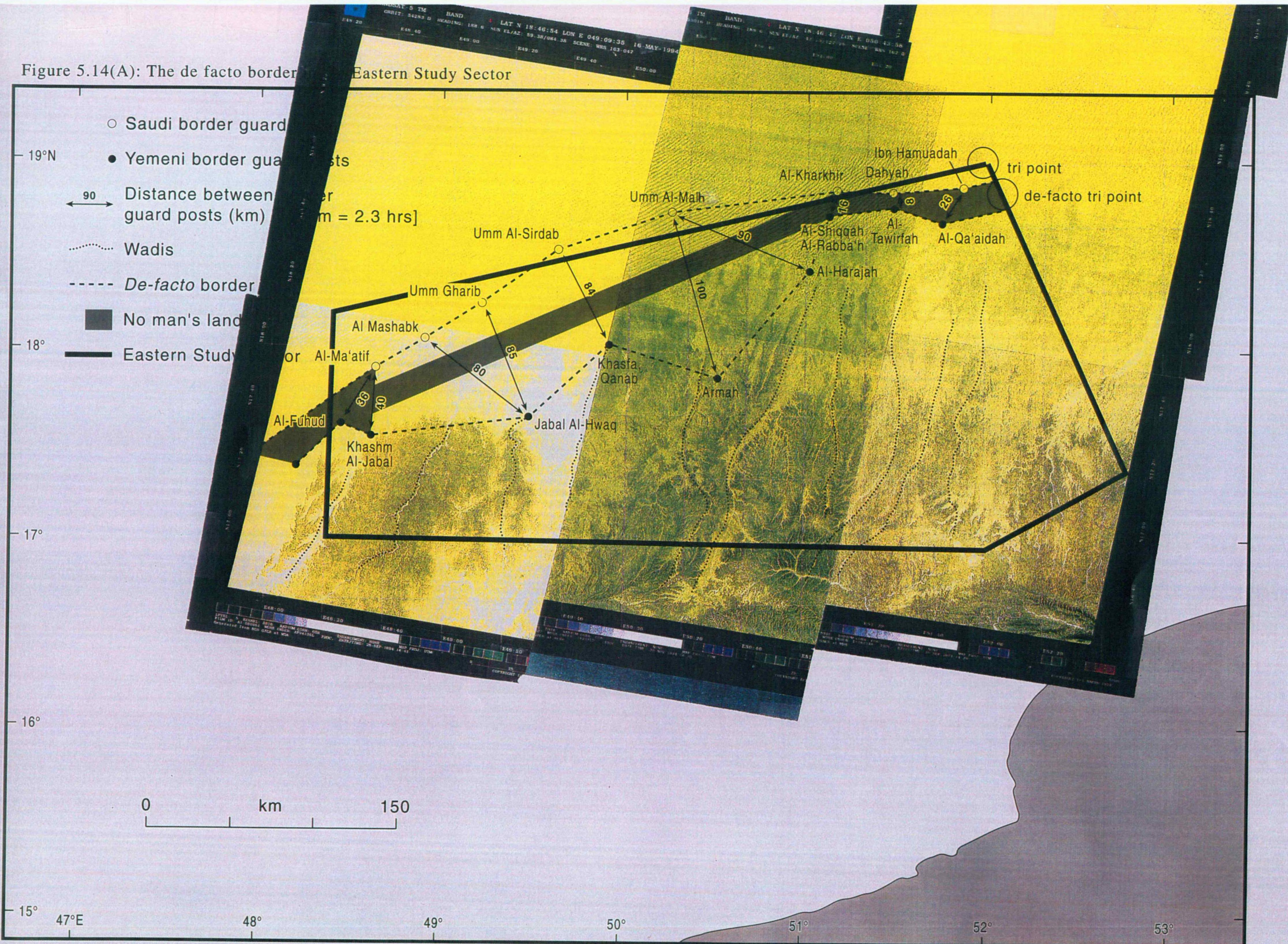
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Source: Foreign Scouting Service Petroleum Activity 1994



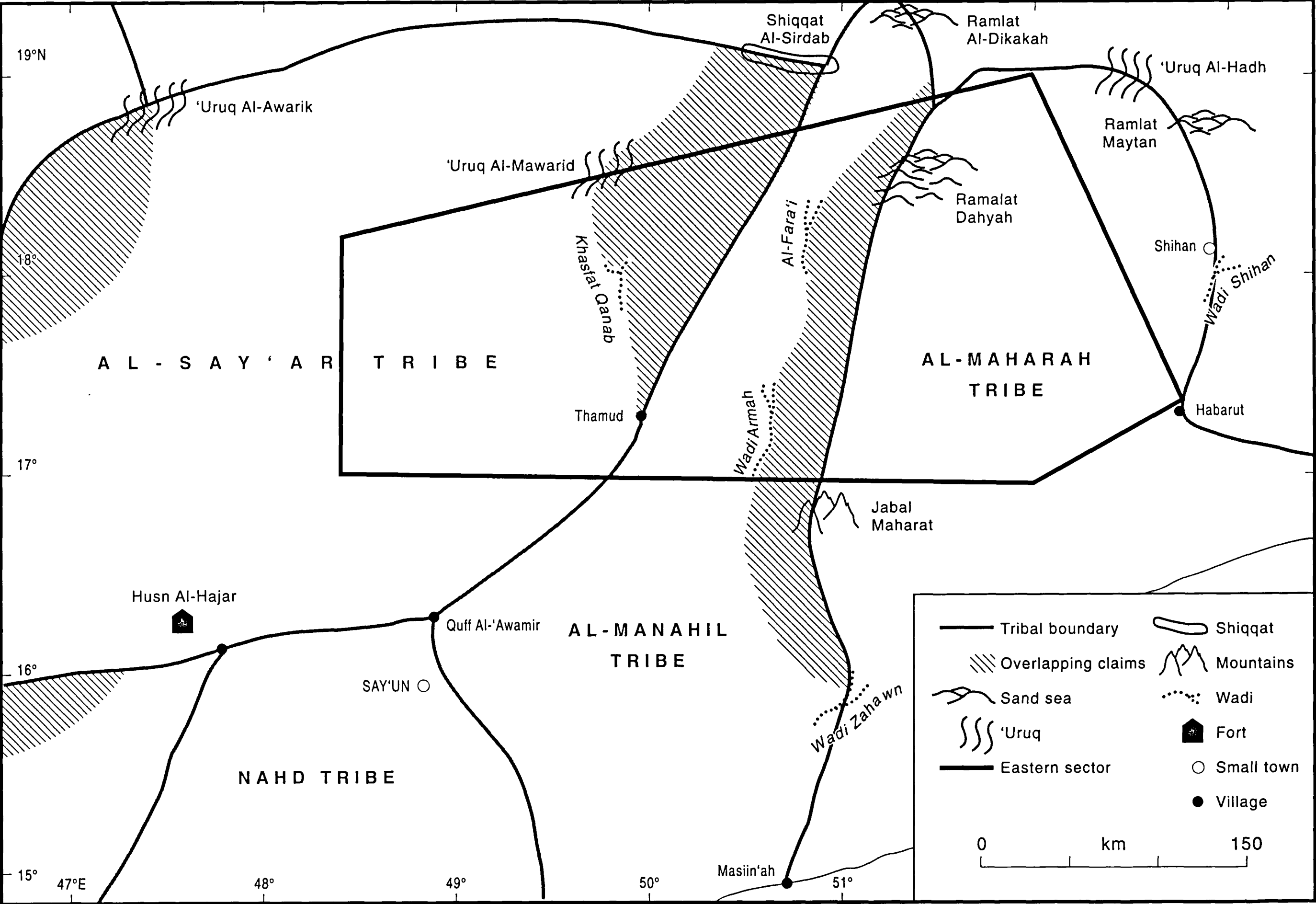
Figure 5.14(A): The de facto border Eastern Study Sector



Source: Author's Field Survey, July - September 1994



Figure 5.15(A): Distribution of tribes in the Eastern Study Sector



Source: Author's Field Survey, July - September 1994





Plate 2.1 Border mark no.31, Zibarat Alsir, Al-Tawal Emirate



Plate 2.3 Border mark no.45, Wadi Alrabidh in Almasna, Zahran Al-Janub Emirate.

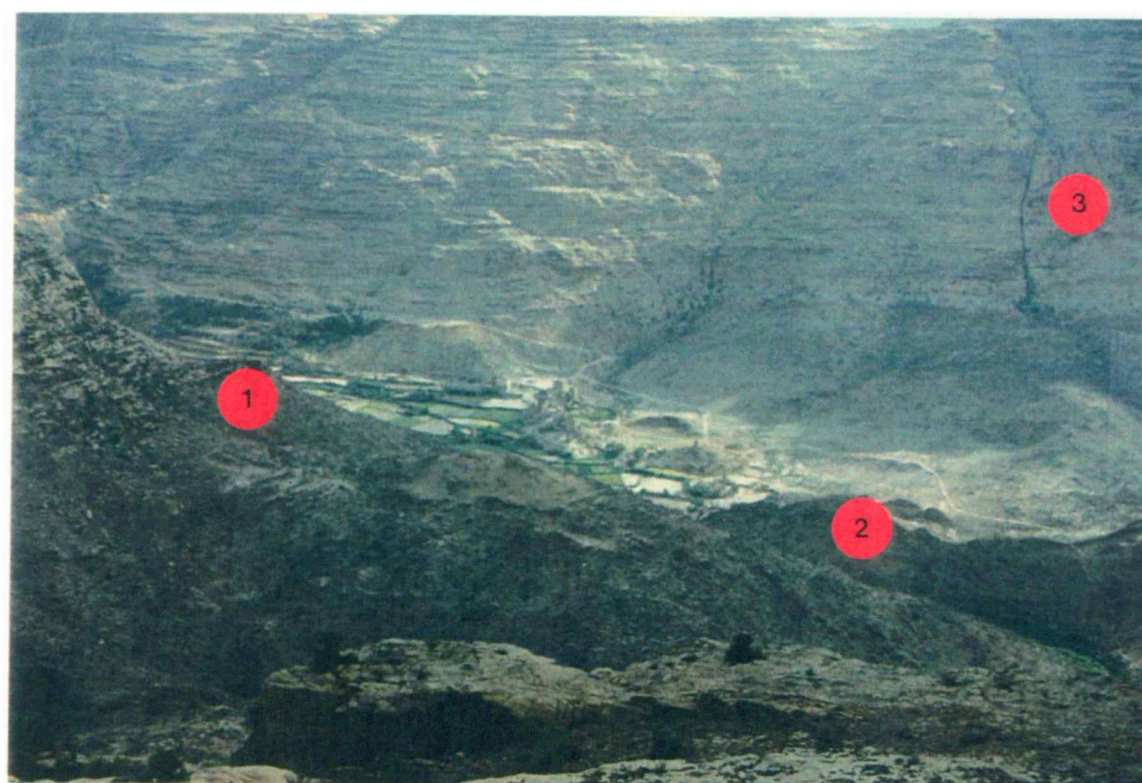


Plate 2.2 A number of border marks in the Surowat mountains, Zahran Al-Janub Emirate: (1) Madfa Alhinka (border mark no.41); (2) Alsabsab (border mark no.42); (3) Naleed Alkaal (border mark no.43)

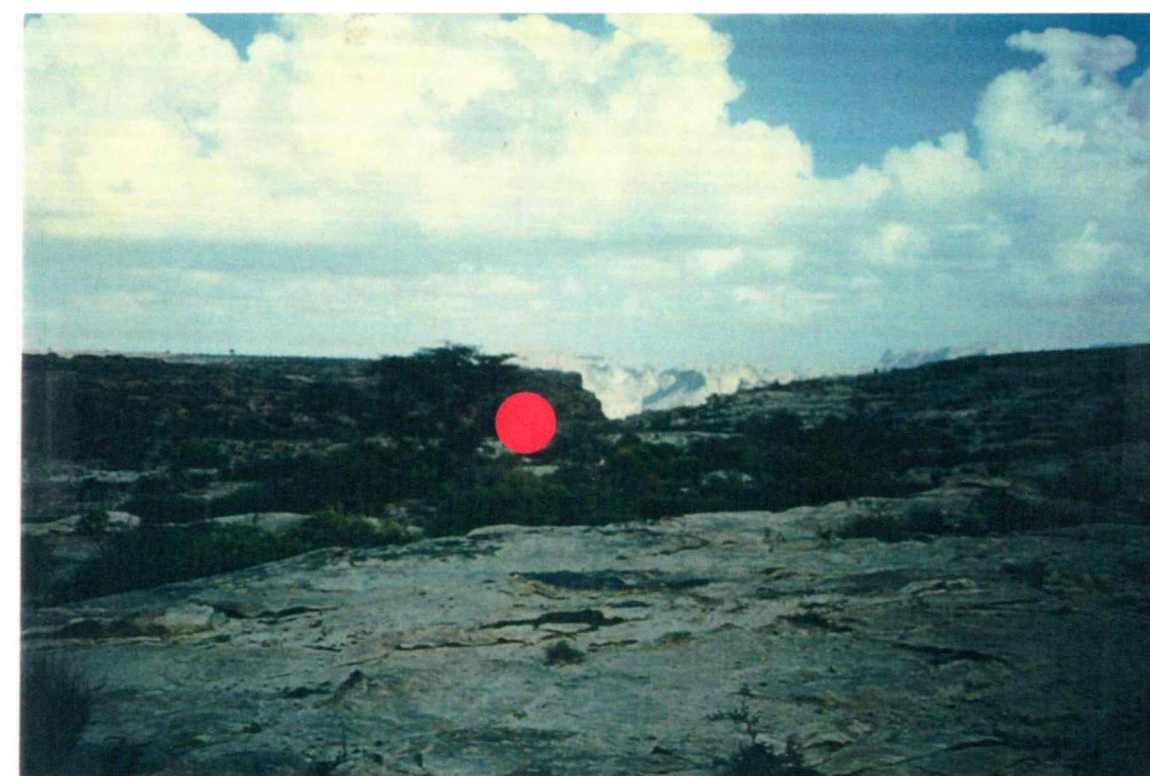


Plate 2.4 Border mark no.38, Sha'ab Alqoum, Zahran Al-Janub Emirate.



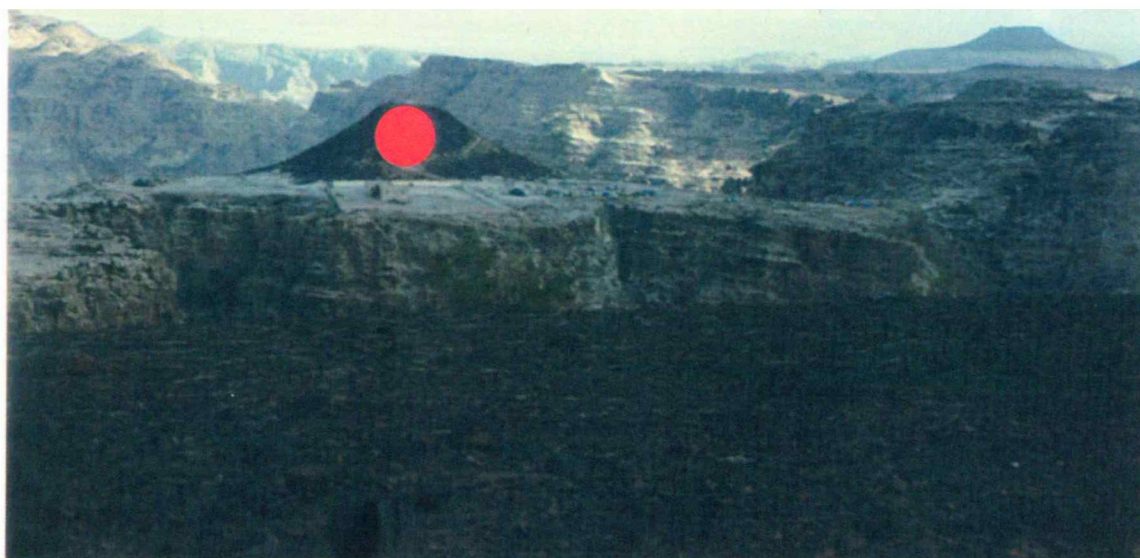


Plate 2.5 Border mark no.39, Ras Jabal Alab, Zahran Al-Janub Emirate.

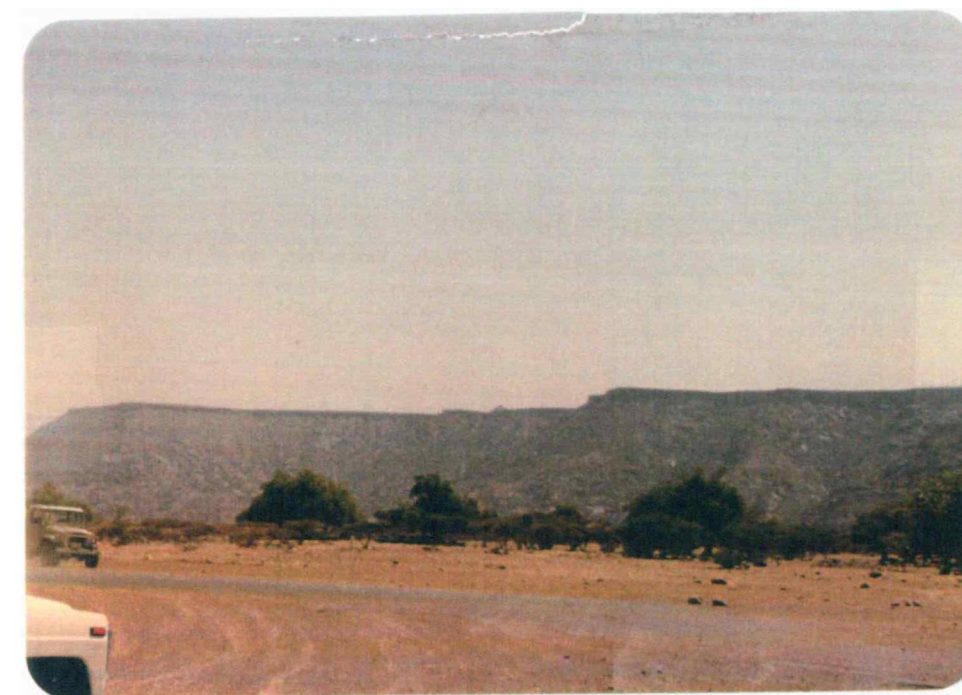


Plate 2.7 Border mark no.11, Ras Aqaba Nahuga, Al-Khadra Emirate.

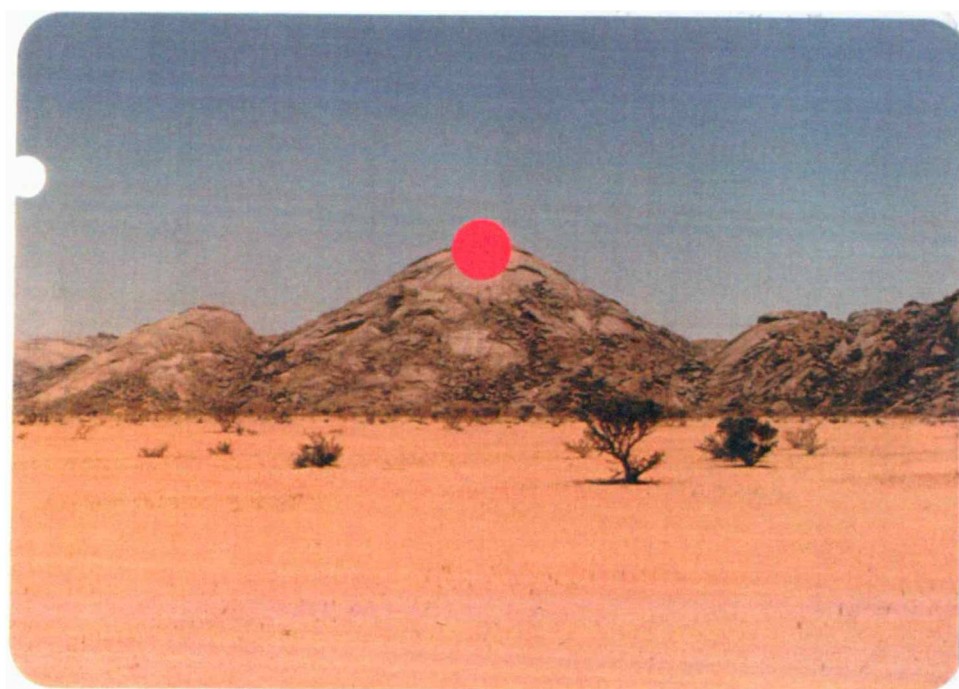


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Plate 2.8 An example of the border marks mentioned by Philby (1952: pp.513-6).





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Plate 3.3 The most common type of vehicle (Toyota Pickup) used by Yemenis crossing the frontier, Al-Khadra checkpoint.



Plate 3.2 Yemenis crossing the frontier carrying goods from the Saudi side to the Yemeni side, Al-Khadra checkpoint.

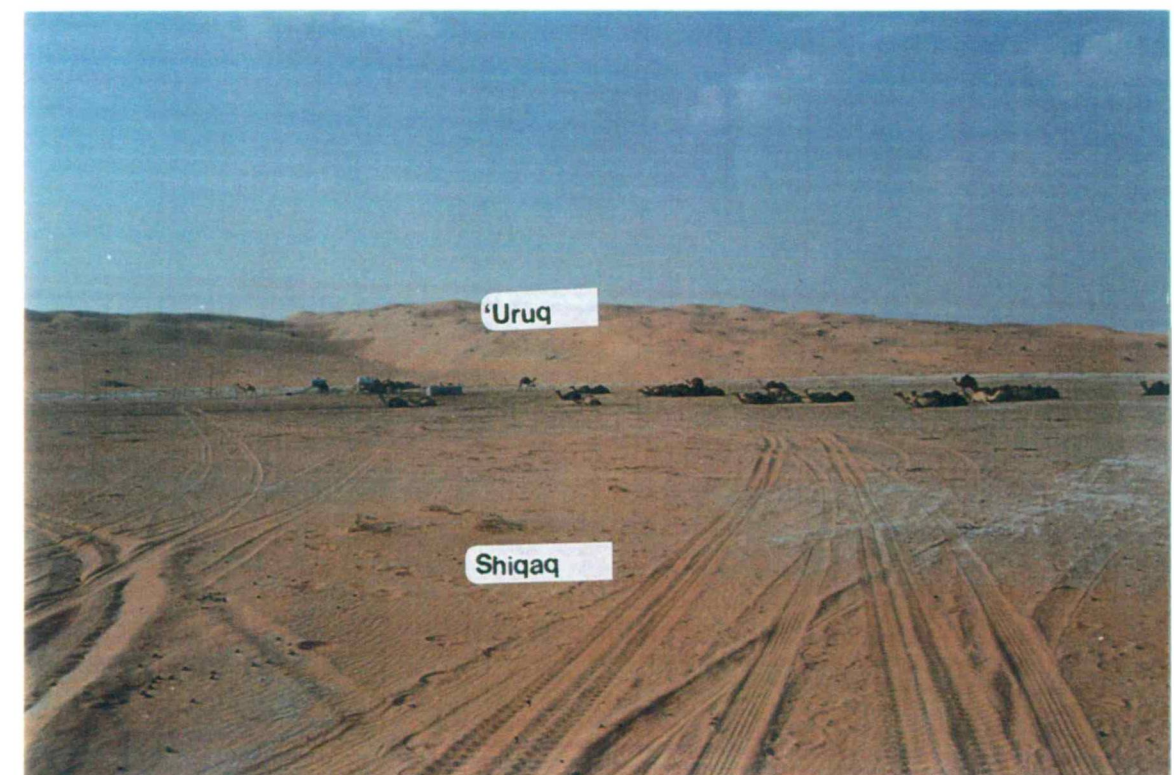


Plate 4.1 'Uruq: long linear sand ridges; Shiqaq: valleys or depressions between the ridges.